STEEL

EDITORIAL INDEX

for

VOLUME 130

January 1 to June 30, 1952

Subject Index 3

Company Index . . . 20

Author Index 40

THE PENTON PUBLISHING COMPANY

Penton Building, Cleveland 13, Ohio

SUBJECT INDEX

A

Abrasives:
Abrasive belt on grinder, IE, 3/24, p.112
Abrasive blasting prepares enamel base, 3/3, p.102
Abrasive for wet blasting, IE, 1/14, p.87
Coated abrasives ease jet blade finishing, 6/9, p.90
Nuclear gaging controls abrasive coating thickness, 6/9, p.96
Sand paper improved, ENG, 6/2, p.91
Smooth finish for strip, 3/3, p.82

Adhesives:
Adhesive bonds lap joints for airplane, 4/7, p.146
Glue binds abrasives to wheels, IE, 5/5, p.177
Seal-All, IE, 3/17, p.136
See Bonding, Tape

Advertising:
Awards, winners pic., 6/9, p.182

Air:
Adding machine parts handling facilitated by compressed air, 6/30, p.80
Air cleaners—portable for welders, 6/23, p.116
Air compressor—portable, IE, 6/9, p.150
Air compressors (see Engines)
Air cylinders, report, 5/26, p.52
Tagged air—aircraft, ENG, 6/30, p.75
(See Pollution)

Air Conditioning:
Air conditioning, industry use, 3/10, p.89 and 6/19, p.79
Air conditioners for rooms, 6/2, p.75
Buffalo Forge bulletin, 2/11, p.115
Cab conditioning line, IE, 4/23, p.127
Dehumidifier, IE, 6/23, p.128
Electric air precipitators, 1/28, p.38
Fresh'nd-Aire adds, 6/16, p.140
Self-contained air conditioner, IE, 5/5, p.170
Switchroom (telephone) requirements, 2/11, p.126

Air Conditioning & Refrigerating Machinery Assn.:
Home air group formed, B, 4/7, p.231

Aircraft:
Aircraft structures, rubber stretch, ENG, 6/16, p.95
Business prospects—'52, 1/7, p.108
Hydrogen causes embrittlement of forged compressor blades, 3/24, p.76
Helicopter (midget) dev., 3/17, p.119
Jet alloys toss challenge to machine tools, 4/28, p.76
Jets (see engines)
L. A. expands plants, 2/11, p.57
Precision spinning forms gyro indicators, 3/24, p.68
Profits perilous, Peale reports, 4/14, p.70
Rudders B-36, 2/11, p.57
Steam catapult for carriers, ENG, 5/12, p.87
Subcontractors, Senate investigates, 3/31, p.56
Supersonics, heat barrier in metals studied, 5/26, p.77
Watchmaker's lathe produces aircraft parts, 6/9, p.103
West Coast stresses conservation, 3/24, p.51

Air Force:
Atomic weapons, 3/3, p.56
Cost cutting, equipment, ENG, 6/30, p.75
Finletter on defense items, 3/3, p.56
Heavy press program:
  Castings from Europe, 4/7, p.87; 5/12, p.65; 6/9, p.68; 6/23, p.45
  Heppenstall reactivates plant, 6/16, p.79
  Survey shows press need, 2/25, p.86
Reactivates buildings, pic., 2/11, p.58
Speed by knots, ENG, 6/9, p.89
Surplus tools, 4/7, p.89
Tiny lamp bulb, 6/30, p.78

Aircraft Industries Assn.:
Conservation program, 3/24, p.51
Cost cutting savings, ENG, 4/21, p.79
Electric design book, 6/30, p.100
Railroad rates attacked, 4/21, p.44

Alloys:
Aluminum alloys: Automakers may use more, 5/19, p.95
Alloy conservation: Boron fills the bill, 2/18, p.107
Alloy 8 used for springs, ENG, 2/18, p.93
Alloy steel for maintenance, 4/7, p.179
Cathode Alloy-30, 5/19, p.144
Copper-silver bronze, IE, 6/2, p.160
Boron (see)
Electrolytic grinding: Stubborn alloys less formidable, 3/17, p.84
HF alloy studied, ENG, 4/28, p.73
Jet alloys toss challenge to machine tools, 4/28, p.76
Jet alloys tough on tools, 2/4, p.124
Manganese alloy cuts nickel use, 4/7, p.172
Shortage, substitutes, YC, 1/7, p.244
Spot testing aluminum alloys, 1/28, p.67

Aluminum:
Aluminum: Heavy expansion in a light metal: Vance Bell, 2/4, p.69
Aluminum use for power conductors, 4/7, p.167
Atomic process, 2/25, p.51
Auto use (see Automotive)
Book—OTS, aluminum symposium, 6/23, p.90
Canada invades U. S., 3/31, p.49
Coloring chemical, 1/21, p.80
Construction use, Reynolds report, 4/21, p.53
Greek loan repaid in alum., 3/31, p.38
Violators hit by NPA, 4/21, p.53
Wearing apparel sprayed, 5/26, p.59
See Capacity, Electroplating, expansion, finishes

American Ceramic Society:
Austin gives Orton lecture, 4/21, p.116
Meeting, new products, 5/19, p.73

American Die Casting Institute:
Doehler Award; entries accepted, 3/24, p.81

American Electroplaters Society:
Finishing show, 4/28, p.114
Meeting, nickel shortage topic, 6/23, p.45
Moves offices, B, 3/31, p.155

American Foundrymen's Society:
Meeting report, 5/12, p.100
Shell molding exhibit, 5/12, p.146

American Gear Manufacturers Assn.:
Contributor, YC, 1/7, p.257
Meeting report, 6/9, p.65

American Hot Dip Galvanizers Assn. Inc.:
Elect officers, B, 4/14, p.195

American Iron & Steel Institute:
Armaments: 1-day steel output, 6/30, p.44
Average profit on a dollar of steel sales drops, 6/30, p.44
Chrome stainless: R. E. Paret, 4/28, p.79
Costs hike, 4/14, p.65
Geographic center of steelmaking, 4/21, p.57
Metals per person, '51, 4/21, p.54
Meeting scheduled, Dr. Bain to speak, 4/21, p.55
Meeting, papers presented, 5/26, p.88
Meeting: Statism or freedom?, 5/26, p.47
Refractories, tech. papers, 5/26, p.88
Steel payroll—April, workers average, 6/16, p.68
Tower retired, pic., 6/2, p.65
Write-offs total, 6/30, p.49
See Capacity, Distribution, Shipments, Production

American Institute of Electrical Engineers:
Preheating speeds plating, report, 2/11, p.129

American Institute of Mining & Metallurgical Engineers:
Conference slated, 5/5, p.105

American Machine Tool Distributors' Assn.:
Renegotiation, foreign tool problems, 4/28, p.47

American Management Assn.:
Packaging conference, 4/14, p.77
Packaging publications, 1/21, p.76
Training center, 2/11, p.65

American Ordnance Assn.:
Carbide cutting tool committee, 3/3, p.129

American Patent Law Assn.:
Speakman warns on military research, 1/28, p.41

American Railway Car Institute:
Freight car shipments, chart, 4/21, p.55

American Society for Metals:
Correlating test-service data, H. J. French speaker, 5/5, p.132
Georgia chapter honors Lynch, B, 6/16, p.217
Meeting, 1/28, p.41
Summer jobs listed, 4/21, p.52

American Society for Quality Control:
Meeting, 4/28, p.120

American Society for Testing Materials:
Books issued:
  Copper, 6/16, p.154
  Nodular iron, 2/25, p.117
  Refractory standards, 5/26, p.108
  Sampling problems, 3/31, p.95
  Stainless properties, 4/7, p.164
Meeting scheduled, 2/25, p.86
Meeting reports, 4/21, p.113
Meeting report, 6/30, p.48
Pipe and tubing spec., 6/2, p.98
Service, scarce material conservation, 4/28, p.120

American Society of Mechanical Engineers:
Conference, conservation report, 3/10, p.151
Meeting, atomic handling, 4/7, p.115
Meeting, gas turbine, 4/14, p.129
Meeting scheduled, 5/26, p.111

American Society of Tool Engineers:
Chapter, Lima, O., B, 6/9, p.179
Chicago meeting:
  Exhibit, mechanical hand press feeder, 4/7, p.156
  Exhibitors, 3/10, p.116
  Meeting report, 3/24, p.43
  Report, surface finish control, 3/31, p.80
  Technical program, 3/10, p.123
  Seen and Heard, 3/24, p.42
Dallas meeting, 4/28, p.90
Detroit meeting, diamond standards report, 4/28, p.102
Scholarships, finances sought, 3/10, p.70
Simple machines urged, 1/21, p.39
Survey: Better tools wanted, 1/14, p.35
Survey: Jet alloys hard on cutting tools, 2/4, p.124
Tool research, 5/5, p.148

American Standards Assn.:
Conference report, 5/19, p.142
GSA (MacLeod) addresses, 5/26, p.105
ISO meetings (see Standards)

American Steel Warehouse Assn.:
Meeting; Steel jobbers set for buyers' market, 5/19, p.49
Warehouse steel: Normal selling soon, 4/28, p.46

American Supply & Machinery Manufacturers Assn.:
Meeting: A way to get business reported, 5/26, p.49

American Welding Society:
Electric welding conference, 4/21, p.90
Safety revisions, 2/25, p.105
Welding paper reprinted, 2/11, p.111

American Zinc Institute:
Contributor, YC, 1/7, p.402
Galvanized sheet forecast, 4/21, p.168
Meeting scheduled, 4/7, p.172
Shaner speaks, 4/28, p.46

Ammunition:
Cartridge plastic liners, 2/11, p.125
Cartridges, steel instead of brass, 3/17, p.47
Shell marking, IE, 4/14, p.150

Amortization:
Applications:
  Erie Mining, 2/25, p.51
  Lone Star, 3/10, p.80
  Lone Star wants full write-offs, 5/26, p.58
Approvals:
  Copperweld (request) Warren, O., 3/10, p.80; granted, 3/17, p.58
  Erie Mining, 4/21, p.57
  Detroit Steel, Portsmouth, 6/23, p.44
  Harvey Machine, Montana, 2/18, p.58
  Ohio Manganese, 2/11, p.65
  Ohio River Steel, 5/12, p.61
  Sharon Steel, 3/10, p.80
  Yolo Steel, 3/10, p.80
Approvals (DPA), 5/26, p.58
Approvals (groups), 3/31, p.51, 4/7, p.87; 5/5, p.74; 6/2, p.69
Basic materials program accelerated, 4/14, p.66
Certificates, geographical analysis, 6/2, p.69
Certificates: Summing up, 6/16, p.78
Coke oven approvals, 6/30, p.49
Companies granted largest certificates, 1/21, p.44
DPA revises rules, 2/25, p.53
Electric power approvals, 2/25, p.40; 4/28, p.51
Extruders—aluminum aided, 3/10, p.78
Fast tax revised, 2/25, p.53
Industrial, prior consultation with gov't, 6/23, p.35
Iron and steel total, 6/30, p.49
Preferred list, 1/21, p.44
Railroads top write-offs, 2/11, p.65
Steel approvals, companies listed, 6/30, p.49
Steel loans tighten, 5/19, p.53

Appliances:
GE revamps at Louisville, 3/31, p.47
Gas makers—'52 prospects, 1/7, p.522
Home appliance growth, 3/31, p.47
Industry report, 3/24, p.43
Sales not production in '52, Westinghouse report, 3/3, p.49

Armament:
Armaments: 1-day steel output, 6/30, p.44
Armor shops reactivated, 4/21, p.66
Arms production policy swerves, 2/4, p.59
Clad metal bullet jackets, 1/21, p.68
Design changes, industry suggestions welcome, 3/31, p.52

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Plants gov't built 5/5 p 62
Tank gun range finder Army 6/16 p 72
Tools on tap is stockpile answer 2/18 p 65
Shell mold electroformed ENG 2/11 p 81
Shellmakers carbide data 3/3 p 129
Shellmakers committee 2/18 p 70
See Shipments

Armed Forces
Electronics program 1/14 p 55
See Procurement

Armour Research Foundation
See Illinois Institute of Tech

Army
Critical materials savings listed 6/23 p 50
Locomotive Mrs 1 4/21 p 59
Metal savings 1/28 p 40
Military trucks pic 3/31 p 50
Ordnance Detroit Arsenal (see Arsenals)
Ordnance Gage checking 5/19 p 134
Ordnance reactivates Indiana wks ENG 6/16 p 95
Ordnance warm forging ENG 2/25 p 75
Rubber barges carry cargo 4/28 p 56
Signal Corps translator 3/3 p 108
Tank gun range finder 6/16 p 73
Vehicles from Korea round up ENG 6/23 p 71

Arsenals
Detroit:
  Army Ordnance criticized (and tanks) 2/18 p 71
  Army Ordnance criticized procurement production and packaging 2/25 p 61
  Private industry may get 4/21 p 65
  Congressional committee report 5/5 p 83
  Chrysler to operate 5/19 p 76
    Keller takes over 6/2 p 78
  Chrysler shift new business 6/30 p 62

Associated General Contractors of America Inc.:
Meeting 3/3 p 59

Association of Bearing Specialists:
Formed B, YC 1/7 p 571

Association of Iron & Steel Engineers:
Meeting reports:
  Management leadership Armco, 5/5 p 71
  Planned maintenance J&L 5/5 p 106
  Narrow strip mills employ single-stack annealing furnace Lee Wilson Eng 5/12 p 98

Atomic Energy:
AEC contract Carborundum Metals 6/2 p 69
AEC fission study 4/14 p 75
AEC handbook 3/10 p 172
AEC patents royalty free 3/3 p 105, 3/10 p 84
AEC reactor Brookhaven lab 3/10 p 155
AEC studies plant sites 4/21 p 52
AEC symposium summarized 3/3 p 124
Air Force weapons center merger 3/3 p 56
Air looks at atom risk 4/7 p 115
Aluminum process 2/25 p 51
Atomic weapons 3/3 p 56
Autotransformer power 6/30 p 100
Britain's atomic heating plant 3/3 p 94
Budget for expansions 2/4 p 6
Cost of atom program 1/28 p 27
Declassification Guide three nations prepare 4/21 p 52
GE atomic power plant submarines 3/3 p 59
Industry uses sought 2/4 p 64
Isotopes distribution 5/19 p 133
Nuclear inspector pic 2/25 p 111
Peace time use patent application ENG 5/12 p 87
Piping contract Paducah Ky 1/21 p 38
Private lab formed 4/21 p 52
Radar electronic bombing system pic 2/11 p 59
Radiography Stanford survey, 6/9 p 126
Radioisotopes research American Can 4/7 p 113
Reactor power AEC invites research 4/14 p 65
Reactor power AEC report Dow and Detroit Edison submit proposals 5/12 p 70
Reactor power swimming pool for schools and other training institutions 6/2 p 128
Reactor technology training 4/21 p 40
Testing unit Idaho Falls B 4/21 p 167

Automation
Automatic broaching Splines per hour in steel forgings 4/28 p 82
Ford Cleveland plant (Mirrors of Motordom) 4/7 p 99
Ford Cleveland plant chips removal 4/14 p 105

Automotive
Allocation cut discussed 1/14 p 40
Aluminum Alloys Automakers may use more 5/19 p 95
Aluminum car Alcoa official address SAE 5/12 p 73
Aluminum copper surplus sought 3/10 p 91
Aluminum distribution 5/19 p 75
Annual reports (see Financial)
Auto Facts defends new autos 3/31 p 59
Auto Show 1/21 p 47, 2/18 p 80
Auto stamping cooperation urged 2/25 p 62
Business prospects '52 1/7 p 107
Car design 1/14 p 39, 3/24 p 54
Car prices 2/18 p 80
Car stocks postwar low 3/24 p 54
Carburetion system Hudson 6/2 p 78
Chart Passenger car output individual companies 6/9 p 75
Chart Production in contrast to quotas (Apr May) 6/8 p 73
Chevrolet and Plymouth '53 models may be early 5/12 p 73
Congressional Record refutes O'Konski 6/23 p 58
Copper aluminum conservations savings listed ENG 3/10 p 103
Copper needed Detroit Commerce reports 3/3 p 62
Electrical change 5/26 p 62
Garrison state economy '52 1/7 p 153
Headlight Autronic Eye 3/10 p 170
Horsepower Cadillac Chrysler race 1/28 p 49, 4/28 p 60
Jeeps improved ENG 2/25 p 75
Light car perspective 1/7 p 158
Materials handling and packaging attention 4/14 p 77
Military (plant construction) 1/7 p 157
Piston ring honing 3/10 p 92
Plastic body 3/10 p 91
Plastics used 6/30 p 61
Plating white brass progress 2/11 p 67
Power steering 6/16 p 82
Power steering British viewpoint 5/26 p 61
Radiators aluminum use 6/23 p 58
Radiators material substitutes 1/7 p 158, 3/10 p 81
Registrations Ford edges Chevrolet 6/9 p 76
Sales analysts forecast demand 6/23 p 57
Sales '51 compared with '50 1/7 p 154
Sales GM Klinger addresses ASM (5/12) p 73
Sales strike effect 6/30 p 62
Specialization auto engineering too much 6/9 p 76
Springs metals used YC 1/7 p 254
Steel strike Olds Ford Chrysler suspend work 6/23 p 58
Steering GM device 2/4 p 73
UAW-CIO pay increase 6/2 p 77

Automotive & Aviation Parts Manufacturers Inc.:
Shortages '54 Colbert speaks 2/4 p 60

B

Bearings:
Ball bearing spindle for grinder IE 5/12 p 164
Copper lead for slow speed diesels 2/4 p 94
Dryer handles bearing assemblies Timken 3/24 p 94
End roll cuts bearing wear 5/19 p 128
Military demands YC 1/7 p 282
Nylon for cams and bearings 4/7 p 173
Pitch line ENG 5/19 p 89
Sealed ball bearings IE 6/16 p 190
Supply '52 1/14 p 28
Ultra thin bearings 6/16 p 156
Worn surfaces reclaimed 2/18 p 164

Badges:
Identifications made in '96 sec 4/7 p 158

Batteries:
Flashlight output 3/3 p 48
Maintenance chart 4/28 p 124

Battelle Memorial Institute:
Computor 3/3 p 112
Contributors YC 1/7 p 248, 257, 144
Sound waves industry application ENG 6/23 p 71

Bauxite:
Expansions 6/23 p 35
Jamaican shipment for Reynolds 6/9 p 71

Belgium:
Brass screws sold in U. S. 2/11 p 46
E P U allocations 2/4 p 65
Production steel ingots-castings 3/10 p 87
Royal Institute construction pic 2/4 p 65
Schuman plan vote 1/21 p 43
Test furnace erected 4/21 p 88

Beneficiation:
Raw materials blast furnace practice 5/19 p 106

Beryllium:
New applications YC 1/7 p 254
Toxic effects studied ENG 4/7 p 113

Blast Furnaces:
Belgian test furnace 4/21 p 88
Bethlehem Lackawanna furnace lighted 4/7 p 86
Blast furnace practice series (see Steelmaking)
Coke consumption rate determines charge 2/4 p 91
Controlled pressure 1/7 p 223
Cornwall furnace (built in 1742) 4/7 p 121
Desulphurization worth watching 1/28 p 76
Ferromanganese cleaning 3/10 p 180
German process gas probe, ENG 5/12 p 87
Ore reaction tests 2/25 p 112
Sharpsville furnace (built in 1846) 4/7 p 122
Soviet per cent of high pressure blowing 3/3 p 84
Top pressures for smoother operation 3/3 p 89
Top pressure operation nine stacks operating 3/3 p 84
See Production

Blast Furnace & Coke Assn.:
Coke rates analyzed 2/4 p 91

Bonding:
Aluminum-nickel (Alni-Clad) synthetic rubber compound 3/31 p 85
GM bonding process coating steel and nonferrous metals with aluminum 6/16 p 82
Metal to nonmetal brazing ENG 4/14 p 91
Rubber shapes to metal IE 4/28 p 138
Silver (clad) stainless ENG 5/12 p 87
See Adhesives

Blasting:
See Cleaning, Blasting

Books, Booklets:
Abrasive machine case study 3/10 p 155
AEC handbook rev., 3/10 p 172
Air power at work 3/31 p 102
Air shipping 6/16 p 176
Air tools 1/21 p 82
Alcoa American enterprise 3/31 p 113
Alloy welding 5/19 p 103
Alloys in Cooperland 2/4 p 124
Alloy parts for long wear 3/10 p 172
Antitrust laws story 2/4 p 154
Application of elasticity theory F D Murnaghan 2/25 p 120
Application of strain gages: J J Koch 4/28 p 112
Arc Welding:
  Encyclopaedia of oxyacetylene 3/31 p 114
  File facts (cutting torch) 4/7 p 158
  Lessons in welding: C H Zielke 3/31 p 113
  Textbook 4/7 p 174
Atom data, 3 nations unveil 4/21 p 52
Austenitic stainless testing 5/26 p 126
Automatic rivet-setting 5/12 p 130
Ballizing bulletin 4/7 p 156
Band tool manual 3/3 p 118
Belting requirements 4/7 p 168
Blast cleaning continuous 5/12 p 133
Blending 3/3 p 112
Bolt, Nut & Rivet Standards 6/16 p 175
British Planning & Nationalization 6/16 p 175
Bulk sampling 3/31 p 96
Carbide data for shell makers 3/3 p 129
Carbide grades charted 4/29 p 117
Case hardening 5/5 p 128
Ceramics booklet 3/3 p 113
Carolina Steel operations B 3/10 p 237
Combustion control 3/10 p 174
Condensed scales 5/26 p 107
Commercial laws credit manual 2/4 p 150
Conversion chart 2/4 p 132
Defense handbook GSA 4/28 p 52
Developments in industrial furnaces: W Trinks 2/25 p 120
Diamond salvage (NPA) 4/28 p 99
Die block handbook 5/26 p 126
Dipping baskets 4/28 p 122
Dow Corning What's a silicone? 5/12 p 118
Duplexing facts 3/31 p 104
Electrical data rev., 3/3 p 118
Electrical installation guide 6/30 p 100
Electronic controls 5/12 p 144
Electronic surge comparison testing 3/3 p 104
Electronics digest 4/21 p 83
Electroplating developments 2/4 p 154
Elements of hardenability: M A Grossman 4/28 p 110
Exhaust hoods: J M Dalla Valle 4/28 p 110
FHP gear motors 4/28 p 99
Fabricator facilities 2/4 p 114
Fair trade practice FCC 4/21 p 60
Flexible shaft 2/25 p 109
Flow meters 4/7 p 180
Foundry:
  Croning process molds-cores 1/14 p 64
    Principles of practice 3/31 p 110 and 2/4 p 154
  Mechanized foundry 5/12 p 130
Fractology (steelmaking) YC 1/7 p 285
Fundamentals of grinding: K B Lewis 2/18 p 130
Furnace equipment 2/11 p 126
Gas flame limits 4/7 p 161
Gear quality data 5/19 p 136
Graphitization study 6/16 p 170
Heat treat problems studied 3/10 p 170
Heavy metalworking tools 5/5 p 151
Hecker tooling capacity 4/7 p 176
Hot water heater care 4/28 p 118
Incentive management 3/31 p 143
Induction heating 3/3 p 92
Industrial heat transfer 3/31 p 114
Inspection in mass production: C W Kennedy 2/18 p 136
Instrument controls 4/21 p 107
Instrument Servomechanisms 2/4 p 132
Instrumentation of furnaces 2/18 p 136
Iron powders 3/3 p 120
Jet-pierce mining 1/14 p 56
Lead primer formulas 2/4 p 110
Limits of nondestructive testing: R F Hanstock 2/25 p 120
Lynn Metal handbook 4/7 p 168
Lubricants in metalworking 2/4 p 150
Machine tools W&S 6/9 p 134

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*, YC—*Yearbook Comment*

Magnesium for industry, 5/26, p.108
Manufacturing processes, 3/31, p.110
Mass production inspection, 2/18, p.136
Meehanite pumps, 1/4, p.120
Metallic acetates, 3/3, p.133
Metal powder bearings, 5/5, p.152
Metals identification, 2/4, p.132
Metals: Past, Present, Future, 6/16, p.172
Metallurgy for engineers (handbook), 6/23, p.98
Microscope at work, 5/12, p.144
Milling and milling machines, 1/14, p.56
Mine welding, 2/25, p.113
Nickel alloy, 1/21, p.82
North American Combustion handbook, 6/16, p.172
Packaging defense, 3/10, p.155
Packaging publications, 1/21, p.76
Paint antirust, 4/28, p.106
Phase transformation in solids, 2/18, p.133
Petroleum dictionary, 6/16, p.141
Petroleum products, lubricant standards, 2/4, p.156
Pipe fatigue-corrosion prevented, 2/18, p.120
Plant maintenance, 4/7, p.168
Plating practices, 5/5, p.152
Plumbing standard, 4/28, p.123
Pollution abatement, 3/17, p.116
Porcelain enamel, new uses, 5/12, p.130
Porcelain enamel reflectance tests, 5/19, p.134
Powder metallurgy, 3/31, p.108
Power tool care, 3/3, p.123
Practical Radiography for Industry: H. R. Clauser, 6/16, p.172
Precision measurement, 3/31, p.111
Press data, 4/28, p.106
Production controls, 2/4, p.123
Propeller fans, 4/7, p.180
Punch, die care, 2/4, p.138
Purchasing agents (federal) directory, 3/10, p.158
Radiation detectors, GE, 3/3, p.80
Reagent catalog, 2/4, p.112
Rectifier design, application, 2/4, p.148
Rectifier types, uses, 4/21, p.96
Refractory handbook, B, 1/21, p.123
Refractory mfg. directory, 6/30, p.100
Refractory standards, 5/26, p.108
Safety in acid handling, 5/5, p.151
Science of precision measurement, 3/31, p.114
Selling to industry: B. Lester, 4/28, p.110
Shaper, how to run, 5/19, p.94
Shell-mold casting clarification, 5/19, p.134
Shot peening, 4/28, p.118
Sigma welding, 4/28, p.117
Spark testing, 4/14, p.117
Spray paint guide, 6/30, p.100
Stainless machining, 3/3, p.126
Stainless segregated, tests, 3/3, p.130
Stainless uses, 3/10, p.168
Stamping, parts range reviewed, 4/28, p.122
Steel properties described, 3/3, p.128
Steels in modern industry, 2/4, p.156
Stud welding, 4/7, p.168
Subcontracting for defense, 5/5, p.76
Thermodynamics of alloys: J. Lumsden, 4/28, p.112
Titanium purified, 4/7, p.172
Tool engineers balancing info., 3/31, p.109
Tube failures, 2/11, p.120
Tube fitting, 1/21, p.80
Truing of grinding wheels, 4/28, p.96
Valve specs, 5/12, p.144
Vibration studies, 1/21, p.80
Water data, 4/14, p.114
Weight-measure laws, 5/5, p.133
Welding maintenance, 3/10, p.148
Welding methods, 4/21, p.114
Welding paper reprinted, 2/11, p.111
Welds on castings, 3/17, p.92
Westinghouse motors, 3/24, p.86, 6/9, p.136
Wire stitching, 3/3, p.167
X-ray protection, 6/16, p.104

Boron:

Alloy conservation: Boron fills the bill, 2/18, p.107
Alloy element in structurals, YC, 1/7, p.246
Boron steels supplement scarce nickel moly alloys, 1/14, p.66
Boron substitution urged, Battelle, 1/14, p.75
Heat treating boron steels, 5/12, p.94
Heat treating experiments, YC, 1/7, p.248
Minerals & Metals Advisory Bd. studies emphasis on specific properties and applications, 6/30, p.93
What boron steels to use and why, 3/24, p.84

Borax:

Rasorite, a sodium borate ore concentrate, ENG, 4/28, p.73

Boston Chamber of Commerce:

Research Day, 5/5, p.143

Brazil:

Bankers study investment means, 3/31, p.55
Strip mill for Bliss, B, 1/14, p.115
Valve shipped, pic., 5/26, p.57

Brazing:

Carbide tips method, 2/25, p.117
Copper - phosphorous - silver alloy Phos-Silver, 6/2, p.140
Furnace brazing, 5/5, p.102
Metal to hard-to-wet carbides, ENG, 6/16, p.95
Metal to nonmetal, ENG, 4/14, p.91
Paste Phos-Copper, IE, 6/9, p.116
Stainless without fluxing, 1/14, p.57
Toy tractor frames brazed, 3/31, p.98
See Flux

Broaching:

Automatic broaching: High output from single machine, 4/28, p.82
Processing methods, YC, 1/7, p.313-316, 362
Tank turret ring output time slashed (retooling World War II surplus machines), 2/25, p.98
See Machines

Brushes:

Motor brush catalog, 3/10, p.174
Paint fences with long brushes, 3/10, p.158

Business:

Air conditioning (see)
Air cylinders, 5/26, p.52
Aluminum (see)
Appliances (see)
Bearings, supply good, 1/14, p.28
Calif. boom levels off, 4/21, p.57
Capital equipment, PPAC formed, Clay Bedford member, 3/10, p.77
Companies new, chances of survival, 1/28, p.38
Construction (see)
Depression, F. V. Gardner reports, 3/24, p.38
Die casters shortages, 4/7, p.85
Electric air precipitators, 1/28, p.38
Electric fuse makers shortages, 1/21, p.36
Electric power '51, 1/28, p.46
Electrical machinery, equipment, YC, 1/7, p.520
Electroplaters, nickel shortage, 6/23, p.45
Extruders, aluminum outlook, 3/10, p.78
Felt industry, 2/4, p.88
File-makers, 3/24, p.51
Fractional hp motors, 4/21, p.58
Gas appliance makers '52, 1/7, p.522
GE report, 3/17, p.57
Government predictions '52, 3/3, p.40
Gray iron barometer (1944-52), 3/17, p.58
Housing: Still high, 2/4, p.61
Industrial diamonds, 4/14, p.96
Industrial furnaces, 5/19, p.62
Industrial lighting, 6/30, p.50
Inflation (industry appraisal), 1/7, p.121
Inflationary trend after decontrols, 2/25, p.47
Inventories shorten, 5/12, p.61
Lifo: Inventory pricing, 5/5, p.80
Manufacturers' agents, 3/24, p.50
Manufacturing firms ('48 to '51), 3/3, p.47
Manufacturing sales, 5/12, p.62
Metalworking sales-earnings report, 2/11, p.56
Midyear review and forecast, 6/30, p.51
More business, fewer companies, 3/3, p.47
Oil-gas expansions for '52, 1/14, p.36
Packaging supply-demand balance, 1/14, p.29
Parker Appliance report, 2/11, p.57
Plumbing goods, 6/23, p.47
Planned research profitable business insurance, 4/21, p.85
Prospects '52, 1/7, p.107, 4/7, p.78
Purchasing agents (see)
Refractories: Eye on steel settlement, 6/2, p.66
Road equipment, 4/28, p.49
Safety pins exports, 4/28, p.38
Sales consciousness, 5/19, p.73
Sales not production issue in 1952 (Westinghouse report), 3/3, p.49
Salesmen (see)
Screw machine parts, 5/19, p.71
Seattle, lack of consumer demand, 6/9, p.73
Sheet metal industry, 5/19, p.72
Shipbuilding (see)
Special machinery makers, 2/11, p.57
Spring makers, 5/5, p.73
Stampers outlook, 4/7, p.95
Steel (see)
Steel cabinets, 3/31, p.48
Steel earnings (see Financial)
Telephone equipment makers, 6/2, p.67
Token industry, 3/3, p.50
Tool & die industry, 2/25, p.58
Used drums, 5/12, p.62
Water conditioning equipment, 2/11, p.65
Westinghouse prospects '52, 1/7, p.522
Wheels industry, 3/10, p.88

Business Machines:

Adding machine parts handled faster, air mechanism, 6/30, p.80
Cards for production control at Remington Rand, 3/31, p.108
Copying machine, IE, 3/24, p.110
Telescriber reproduces business forms, 4/7, p.200

C

California Manufacturers' Assn.:

California boom levels, 4/21, p.57

Canada:

Add foreign-owned plants, 6/30, p.50
Aluminum Co. bids for U. S. market, 3/31, p.49
Newest industrial power, 5/19, p.63
GMC trucks construct railroad, pic., 2/11, p.67
Oil to U. S., 3/31, p.155
Quebec gets furnace, 2/25, p.58
Raw material refined before export demand, 2/4, p.65
Scrap deal, 6/9, p.54

Capacity:

Aluminum goal, 3/17, p.83
Bethlehem Steel, 3/3, p.50
Blast furnace, steel ingot, scrap (W. C. Buell reports), 1/7, p.222
Blast furnace by plant location, 3/3, p.53
Blast furnace, 6/2, p.64
Finished steel products: Compiled by Batcheller, 6/2, p.65
Latin America, iron, steel, 2/11, p.63
Metalworking: Up 8 per cent, 3/24, p.41
Republic Steel, 4/7, p.86
Steel '52, 1/14, p.26
Steel ingot-pig iron: Past, present, pending, 3/3, p.51
Steel - ingot prediction under gov't seizure, 4/14, p.198
Steelmaking, 2/4, p.62, 2/18, p.66, 3/3, p.51, 4/14, p.198

Capital Equipment:

See Business

Capital Expenditures:

American business '52 plans, 3/31, p.37
Construction, '52 outlays, 5/26, p.39
Defense costs half-way mark, 1/28, p.47
DPA and NPA approvals, 3/31, p.37
Durable goods chart, 6/23, p.46
Metalworking 1946-52, 3/24, p.41
Oil and gas industry, 1/14, p.36
Plants (new) - '52, 2/4, p.52
Plants, total outlays ('51-'52 comparison), 1/7, p.107

Carnegie Institute of Technology:

Scrap institute for junior exec., 4/21, p.59

Case Institute:

Lubricant meeting, 3/3, p.108

Casting:

Armor shops reactivated (companies listed), 4/21, p.66
Basic cupola melting experiments, YC, 1/7, p.301-307
Cast iron borings reclaimed, new process, 6/2, p.97
Casting redesign may result in multiple savings, 5/26, p.78
Chart, Lebanon materials, 4/7, p.152
Cores for automotive castings produced 600 per cent faster, 2/11, p.92
Goss process licensed, 6/2, p.66
Gray iron barometer, 1944-52, 3/17, p.58
Heavy casters urge federal aid, 4/14, p.70
Impregnation makes for pressure proof, 2/11, p.117
Investment casting, 1/14, p.58
Nonferrous foundrymen see banner '52, 4/14, p.67
Press program, metals sought, 3/24, p.45
Rare metals require precision furnacing, 3/3, p.76
Shell mold resins, Monsanto, 5/12, p.134
Shell molding advances, ENG, 6/2, p.91
Shell molding, Dow Corning, 3/10, p.186
Shell molding machine, foundry show exhibit, 4/7, p.180
Shell molding tech., foundry show exhibit, 5/12, p.146
Shell molding problems of machinery makers, 3/31, p.60
Specs available at Wright-Patterson Air Base, 6/30, p.50
Turbine blades cast in stainless (for India), 6/23, p.92
See Books, Booklets
See Die Casting

Cements:

Cement for polishing wheels and abrasive belts, 5/19, p.163
Cement insulates vats, 4/7, p.152
Compound sets anchor bolts, IE, 1/14, p.88

Centennial of Engineering:

Scheduled foreign participation, 3/31, p.98

Central Steel Fabricators Assn.:

Meetings, 3/3, p.59, 5/5, p.70

Ceramics:

New products, 5/19, p.73

Cermets:

Applications, 4/21, p.82

Chains:

Wedglok connecting links, IE, 1/21, p.96

Charts, Tables:

Air conditioning, 6/16, p.79
Allotments, 1/21, p.35, 3/31, p.46
Aluminum distribution, passenger cars, 5/18, p.75
Aluminum, from where, 2/4, p.70
Automakers' report, 3/24, p.53
Auto output (Apr.-May) contrasted to NPA quotas, 6/9, p.75
Blast furnace slag, 2/11, p.102
Boron steels, chemical limits, 3/24, p.84
Boron steels isothermal transformation, 5/12, p.94
Capital outlays, durable goods industries, 6/23, p.46
Cemented carbide, physical properties, 4/21, p.84
Chromium plating solutions, fatigue test, 6/16, p.104
Cutting fluid recommendations, 6/23, p.74
Defense-expansion of facilities costs, 1/28, p.47
Electric furnace heats calculated, 1/21, p.72
Fastener size standards, 4/21, p.86

Code: B Briefs, ENG *Engineering and Production News*, IE *Industrial Equipment*, YC *Yearbook Comment*

- Filtration: Trion principle, 5/5, p.166
- Finished steel demand (1975), 6/30, p.46
- Freight car shipments, average monthly, 4/21, p.55
- Gaging combined with production control in coated abrasive manufacture, 6/9, p.97
- Gray iron barometer, 1944-52, 3/17, p.58
- Heavy presses, Air Force contractors, 4/7, p.87
- Housing, '52, 6/9, p.64
- Housing down payments (Reg. X), 6/16, p.69
- Impregnation makes for pressure, 6/30, p.90
- Lebanon casting materials, 4/7, p.132
- Magnesium, temperature affects, 5/5, p.99
- Manufacturing firms, 1948-1951, 1/3, p.47
- Manufacturing sales, 5/12, p.62
- Metalworking, Capital expenditures, 3/24, p.41
- Metalworking sales, earnings, '51, 2/11, p.56
- Nickel, Free World allotments, 6/23, p.55
- Nodular iron welding, 6/23, p.78
- Nonferrous shipments, 4/14, p.67
- Plant vacation shutdowns (percentage by weeks), 6/16, p.70
- Quality control system, 5/19, p.90
- Rail rates, before and after, 4/28, p.48
- Stainless decontrolled, 3/24, p.73
- Steel capacities, 2/4, p.62
- Steel shipments, distribution, 2/25, p.59
- Steel distribution, finished products by market classification, 1951, 4/7, p.96
- Steel production, Feb., 3/24, p.39; Mar., 4/21, p.57
- Steel hourly wage, 4/21, p.51
- Steel wage increase pictured, industry-WSB, 4/28, p.45
- Steel strike effect, 3/24, p.39
- Tax scale, excise-corporate-indiv. income, 2/11, p.56
- Tin plating baths, 1/21, p.67
- Titanium, production process, 6/30, p.78
- Tool life vs cutting speed for jet alloys, 4/28, p.76
- Top pressure furnace operation, Republic, 3/3, p.89
- Union membership vs total civilian labor force, 6/16, p.67
- Wastes purification, 4/14, p.98

Chemicals:

- Acid from coppers, British Autox process, ENG, 4/28, p.73
- Aluminum alloy cleaners, 2/11, p.88
- Aluminum etching compound control, IE, 2/11, p.147
- Aluminum treatment, Starcote, IE, 3/3, p.150
- Alumox 44 colors aluminum, 1/21, p.80
- Barrel burnishing compound, IE, 5/19, p.158
- Carbon cleaner, IE, 3/10, p.204
- Concrete floor hardener, IE, 6/23, p.140
- Deburring barrel finishing compound, IE, 3/3, p.157
- Dye penetrant, Chek-Spek, IE, 5/12, p.164
- Dye penetrant locates fatigue cracks, IE, 2/25, p.126
- Fire chemical checks Venezuelan fire, IE, 3/24, p.99
- Fire extinguisher, Redi-Flo, IE, 6/9, p.148
- Fire powder, Met-L-X, 4/7, p.162
- Fluorine, active element, ENG, 1/21, p.61
- Hydrocarbon prevents rust, ENG, 6/23, p.71
- Graphoid film cuts galling, pipe surfaces, 6/16, p.168
- Hydrogen causes embrittlement of compressor blades, 3/24, p.76
- Lapping compound, boron carbide, IE, 1/28, p.88
- Metal cleaners prepare for finishing, IE, 5/5, p.172
- Metal Guard, rust preventive, IE, 4/21, p.139
- Metal cleaners, alkaline deruster, 1/14, p.75
- Metal, rust-inhibiting, EC-51, 3/31, p.126
- Paper chemically treated prevents water staining, IE, 3/3, p.152
- Phospray, bonding solution, IE, 2/4, p.172
- Planisol, cleaner neutralizer, IE, 3/3, p.157
- Platinum applications, ENG, 1/21, p.61
- Potassium cyanide for plating, IE, 3/17, p.136
- Rubber phenolic varnish, IE, 5/12, p.164
- Rustclean, IE, 3/31, p.128
- Shell molding agents, 3/10, p.186
- Solvent vapor degreaser, IE, 1/7, p.550
- Surface conditioner removes oxidized oils, IE, 1/21, p.96
- Thermosetting resin compound, IE, 5/19, p.136
- Wire strippers, IE, 6/2, p.165
- Vinyl primer for rusted steel, IE, 2/11, p.142
- See Flux

Chemistry:

- American Can research, radioisotopes use, 4/7, p.113
- Pure metals from ore concentrates, chemical process, 5/26, p.76
- Spectroscopy-infrared, MIT program, 4/7, p.154

Chrome:

- Chrome ore standard, 4/14, p.114
- Chrome stainless (17) formed, 6/9, p.95
- Chrome stainless, Easing the pinch, 4/28, p.79
- Closer hardenability control for silicon-chromium steel, 4/7, p.114
- Decontrol in Apr., 1/21, p.25
- Decontrolled chormium stainless: A solution to shortages, 3/24, p.72
- Ferrochromium imports up, 4/14, p.67
- Suppliers (world), 4/21, p.81

Cladding:

- Clad metals make stronger, lighter jets, 5/19, p.104
- Clad steel bullet jackets conserve copper, zinc, 1/21, p.68
- Copperclad, Duraclad, 5/26, p.120
- Silver-clad stainless, 6/9, p.125

Cleaning, Blasting:

- For better finishes . . . clean aluminum thoroughly, 2/11, p.88
- Gas cleaning, openhearth, 3/10, p.180
- Laboratory tests select best blast cleaning method, 1/21, p.62
- New developments, YC, 1/7, p.401
- Rotoblast table for castings, 2/18, p.128
- Sand and scale removed from cast railroad wheel in 30 seconds, 4/7, p.176
- Shot blasting steel rods, 1/7, p.237
- See Chemicals
- See Machines

Cleveland Engineering Society:

- Meeting, noise and vibration discussed, 5/12, p.93

Coal:

- Coal stocks heavy; Lewis keeps mum, 6/9, p.63
- Coal-to-oil (see Fuels)
- Conferences, international, 4/14, p.100
- Towboat pusher, J&L, pic., 1/7, p.573

Cobalt:

- Suppliers (world), 4/21, p.81

Coins:

- Mint at Philadelphia, 6/30, p.48

Coke:

- Consumption rate determines furnace charges, 2/4, p.91
- Distilled coke, ENG, 5/19, p.86

Columbia University:

- Electrolytic cutting, AEC research, ENG, 1/14, p.53
- ISO meetings (see Standards)
- Tungsten award to Dr. Coolidge, 6/2, p.159

Columbium:

- World production, 4/21, p.81

Communications:

- Metallic "whiskers" on telephone equipment probed, ENG, 1/14, p.53
- Microwave line, Motorola, 3/31, p.108
- Signal Corps transistor, 3/3, p.108
- Telephone equipment, 6/2, p.67

Compressors: See Engines

Construction:

- Aluminum uses, 4/21, p.53
- Assn. meeting: Controls complaints, 3/3, p.59
- Bridge connects Calif. cities, pic., 4/14, p.197
- Bridge: Fillet welds join I-beams, pic., 5/12, p.65
- Bridge over Rhine, ENG, 1/14, p.53
- Building prospects—'52, 1/7, p.107
- Building prospects, AGCA report, 3/3, p.59; AISC report, 4/7, p.95
- Chesapeake spanned, pic., 5/26, p.175
- Coal dock, Dravo, B, 5/12, p.195
- Controls studied, 4/21, p.43; 6/9, p.64
- Defense outlook, 2/18, p.67
- Expenditures, May, 6/9, p.64
- Gunnison adds shelter plants, 4/7, p.90
- McNary dam substructure for powerhouse, pic., 2/4, p.205
- Midwest boom after floods, 4/28, p.38
- Pittsburgh Steel, Allentown mill, pic., 4/14, p.198
- Prefab fence panel, 3/3, p.80
- Prefab panels, Alcoa, pic., 5/5, p.108
- Prestressed concrete, use in bridges, buildings, 6/9, p.65
- Republic, pic., 2/25, p.157
- School projects, 2/25, p.40
- Steel dome, Jordan Marsh store, pic., 2/25, p.159
- Steel saved on terminal project, 3/17, p.112
- Studless lath saves steel, 6/16, p.163
- See Capital Expenditures
- See Housing
- See Pipelines
- See Roads

Controlled Materials Plan:

- Allotments:
- 2nd quarter '52
  - Civilian hard goods, 3/10, p.69
  - Compressors, 3/10, p.89
  - Consumer durables, 2/25, p.48
  - Construction machinery, 1/28, p.34
  - Copper, consumer durable, construction, 1/21, p.34
  - Distribution (chart), 1/21, p.35
  - Easing supply, 2/25, p.47
  - Electric utilities, 1/28, p.47
- 3rd quarter '52
  - File by Mar. 1, 2/11, p.54
  - Consumer durable, appliances, etc., 3/24, p.31
  - Distribution (chart), 3/31, p.46
  - Structurals double, 4/21, p.56
  - Oil-country tubular goods, 6/9, p.64
  - Copper bonus, 6/23, p.45
- Applications vetoed (structures), 1/28, p.41
- Automakers seek alum., copper, 3/10, p.91
- Automakers, 3rd-4th quarter figures, 3/24, p.54
- "B" products guide, 6/30, p.56
- Canmakers get tin mill plate, 3/10, p.183
- Clinics, NPA views complaints, 1/14, p.27
- Code reference: Brickbat, 3/31, p.52
- Compliance tightens, 3/10, p.69
- Components, questionnaires filed, 1/21, p.40
- Construction group studys needs, 6/9, p.64
- Country tubular goods, distribution changes, 2/25, p.39
- DPA says supply improvement psychological, 3/3, p.39
- DPA, NPA officials on spot to relax controls, 5/26, p.54
- Decontrols discussed:
  - Aluminum, steel, 3/24, p.40
  - Chrome stainless, 2/4, p.51
  - Chrome stainless: A solution to shortages, 3/24, p.72
  - Controls ease, watch labor, 5/26, p.59
  - Construction, 3/24, p.40
  - Decontrol talk, 2/18, p.65; timetable, 2/25, p.47
  - Decontrol by yearend?, 3/31, p.46
  - Fabricators seek, 5/12, p.71
  - Fabricators addressed by Chapple, 5/5, p.70
  - Fleischmann reports, 4/14, p.70; 5/5, p.76
  - Graphite, 4/14, p.67
  - Industry consensus, 1/7, p.120; 4/14, p.70; 4/28, p.37
  - Metals soon, 3/24, p.31, 43
  - OPS committee, 3/24, p.46
  - Steel soon, 2/11, p.53
  - Steel strip, 2/25, p.48
  - Steel talk continues, 5/12, p.51
  - Steel, second-quality, 5/12, p.71
- Electronics red tape, 3/24, p.51
- Furnace builders want nickel, 1/28, p.37
- Etchers ask materials, 3/17, p.56
- File in triplicate, 1/28, p.40
- Flood victims aided, 4/21, p.58
- Steel: Premium prices deter consumers, 3/17, p.57
- Ford appeals on quota, 4/14, p.78
- Ford quota, Chrysler challenge, 4/28, p.60
- Forging bars tight, 3/17, p.56
- Heavy casters seek, 4/14, p.70
- Hardship Account, SDPA, 2/11, p.58; 2/25, p.48; 4/21, p.56
- Hardship companies seek, 6/16, p.74; aided, 6/23, p.50
- How to do business under gov't controls, 1/7, p.127
- Jewelry (costume) benefitted by hardship setup, 4/21, p.56
- Machine tool unrated order ban soon removed, 6/9, p.66
- Materials requests denied, 12/10, p.62
- Mines get priorities aid, 6/23, p.46
- Nickel: Free World allotments, chart, 6/23, p.55
- Priority for defense jobs, 4/7, p.85
- Reg. W relaxed, 5/12, p.66
- Renegotiation, new offices, 2/11, p.60
- Requirements, techniques considered, 2/18, p.76
- Scrap users oppose allocating, 5/26, p.58
- Self-certification, 2nd quarter, 2/11, p.58
- Self-certification, small firms, 4/21, p.56
- Small business (see)
- Tin platers ask revision, 3/17, p.56
- Tool makers need, 2/25, p.53
- Tractor request, 3rd quarter, 3/17, p.56

Controls:

- Burner-programming control, IE, 6/23, p.140
- Electronic timer, IE, 6/2, p.160
- Electronic strip chart controls time, temperature, IE, 6/2, p.152
- Pilot relay, IE, 3/17, p.125
- Temperature:
  - Cantelever beam load cell, IE, 1/14, p.87
  - Electronic relay-transmitter, IE, 5/5, p.172
  - Firing temperatures controlled (porcelain enamel), 2/25, p.82
  - Remote positioner, IE, 1/28, p.84
  - Proportioning controller, IE, 2/11, p.144
  - Temcometer, IE, 3/24, p.118
  - Thermometers, IE, 1/28, p.88
  - Thermometer-resistance testing, ENG, 2/11, p.81
  - Thermostatic controls hot vapor degreaser, 2/18, p.138
  - Thermal indicators made of paper, ENG, 3/17, p.83
  - Time-temperature unit, IE, 5/26, p.135
- Oxygen indicator, IE, 2/18, p.167
- See Valves

Coolants: See Lubrication

Cooling:

- Cooler for air or gases, IE, 6/9, p.140
- Fume cooler system, 3/3, p.130
- Water-cooling, skid tubes, 2/18, p.101

Copper:

- Copper bonus: Why's and wherefore's, 6/23, p.45
- Copper in steel test, 4/28, p.96
- Copper wire backlogs shrink, 4/21, p.54
- Creep studies, NBS, 3/3, p.94
- Defense share, 1/21, p.33
- Price relief, foreign copper, 5/26, p.39
- Scrap needed, 4/21, p.54
- Shortage, due to red metal products?, 2/11, p.45
- Supply—'52: Basis for optimism, 1/21, p.33
- Toy makers' shortage, 3/3, p.49
- See Controlled Materials

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Cornell Aeronautical Laboratory:
Contracts, $21 million, B, 1/7, p.577

Corrosion:
ASTM lecture, survey of corrosion testing, 3/31, p.104
Building corrosion studied, 5/5, p.148
Conference, future problems discussed, 5/26, p.114
Corrosion problem is physical change, 5/19, p.103
Corrosion-resistant mist prevents rust, 2/25, p.83
Hydrogen causes embrittlement of forged compressor blades, 3/24, p.76
Neoprene coating protects, 3/3, p.97
Oil well costs, ENG, 5/5, p.97
Sea water, arsenic inhibits dezincification, ENG, 2/4, p.87
Sea Water lab, Kure Beach, enlarged, 4/28, p.49
Slag threads vs corrosion, ENG, 3/17, p.83
Sulphur corrosion paper, 4/7, p.173

Counters, Computers:
Boeing expands, B, 4/7, p.231
Computer tests motor design, ENG, 2/4, p.87
Computing electric furnace heats, 1/21, p.72
Data-computing system, 3/31, p.95
Data-computing system vs accountants, ENG, 4/7, p.113
Digital computer, Battelle, 3/3, p.112
Microsecond timing, counter-chronograph, ENG, 6/9, p.89
Pipeline-network analyzer, 5/26, p.84
Quantity control computers, ENG, 4/7, p.113
Slide rule figures sheet sizes, 3/3, p.128
Weight slide rule, ENG, 3/31, p.73

Cutting, Shearing:
Box strapping cuts bandsaw blades, ENG, 6/16, p.95
Cutting wind slices, metal shavings, ENG, 3/3, p.75
Electrolytic cutting, Columbia Univ., ENG, 1/14, p.53
Electrolytic processes, 4/7, p.120
Jet stream lowers cutting temperatures, 1/21, p.70
Magnesium alloy sheet, process, 5/5, p.98
New metal cutting concept lengthens tool life, 1/21, p.76
See Machines
See Machine Tools & Attachments
See Tools (Cutting)

Czechoslovakia:
Mill sale halted by U. S., 1/28, p.36

D

Defense:
Act (DPA), emasculated form?, 5/12, p.51
Aluminum (see Expansion)
Armament (see)
Appropriations, hard goods-construction, 2/11, p.60
Bedford proposes tool cache, 2/18, p.65
Bedford, PPAC member, 5/12, p.63
Book, magnesium for industry, 5/26, p.108
Defense build-up peak, 4/21, p.43
Directory-Who's Who, 1/7, p.143
Distressed areas task force dissolved, 6/2, p.63
Dondero charges IMC, 6/2, p.56
Expansions (see Expansions)
Fleischmann leaves, 5/12, p.52
Fowler succeeds, 5/12, p.52
Industry men needed, 4/14, p.70
Johnson, Lyndon, subcommittee, 3/3, p.56
Johnston, Eric, heads Inter'l Bd., 2/4, p.66
Loan to Central Iron considered, 2/4, p.52
Loans require filing, 1/28, p.42
MAPI conferences, 3/3, p.113
Military cut, 5/12, p.51
Military equip. expenditures, 5/26, p.39
Military output high for two years despite budget cut, 1/28, p.37
Military, production accent '52, 1/14, p.30
Military research, Speakman warns, 1/28, p.41
PAD totals, 2nd quarter, 2/18, p.69
PPAC formed, 5/12, p.63
Petroleum priorities oil ways, 4/21, p.59
Procurement (see)
Production equipment committee formed, 5/26, p.50
Restrictive interpretation of price redetermination, 5/26, p.39
SDPA:
  Assures aid in industrial contracts, 6/2, p.69
  Good agency to know, 5/19, p.68
  Procurement contracts, price differentials?, 1/21, p.39
  RFA loans, 2/25, p.53; 3/3, p.56; 6/2, p.67
  Regional bds., 3/17, p.60
  Regional bd. offices, 2/18, p.72
  Sawyer criticism, 1/28, p.28
Spending, 1/7, p.107; 3/10, p.70
Spending, Congress dissatisfied, 3/3, p.56
Steelman replaces Wilson, 4/7, p.92
Steiner, DPA policy director, pic., 4/28, p.51
Telford Taylor wants write-off changes, 3/3, p.55
V-loans, amt. by Dec., 1/14, p.30
Wilson resigns, 4/7, p.77
See ESA
See NPA

Defense Contracts:
Air Force cancels, 1/21, p.38
Air Force presses (see Air Force)
Army - Midwest contracts, 1/28, p.40
Army Ordnance, 6/23, p.48
Armored vehicle orders, 5/12, p.64
Atomic program, 2/4, p.64
Cadillac, subs system, 2/11, p.59
Cadillac, tanks, 4/7, p.78
Crucible, tank armor plate, 3/24, p.74
Cancellations, matter of timing, 2/25, p.39
Cartridge storage cases awards, 6/23, p.48
Comptroller General auditing, 3/10, p.84
Detroit, preferential treatment, 2/11, p.54
Detroit Tank Center (see Arsenals)
Filing time extended, 2/18, p.68
Financing problems, 1/14, p.18
Fisher Body-Bullard, Gov't cancels, 2/4, p.59
Fisher Body-Bullard, repercussions, 2/18, p.57
Ford, tanks tripled, 5/12, p.64
Foreign, U. S. mfg.s object, 2/25, p.52
GE suppliers: 17,000 firms, 2/25, p.53
GM, propeller cut, 2/18, p.58
Gisholt, subs-South, 4/14, p.68
Goodyear, pic., 2/18, p.70
Hardship aid, 2/11, p.54; 3/10, p.82; 3/17, p.56; 3/31, p.50; 4/28, p.50
Hayes, sub-GE cancelled, 2/18, p.70
Hudson Motor, 5/5, p.74
Ingalls, Navy oilers, 2/18, p.193
K-F splits forces, 3/17, p.60
Machine tool subs, 5/5, p.72
Mare Island distributes, B, 2/18, p.191
Military materiel out 5½ times mid-1950, 4/7, p.92
Navy aircraft, 4/7, p.90
Navy Grumman plant, 1/21, p.38
Navy mine sweepers, B, 1/14, p.115
Navy trailer exhibits, 4/21, p.60
Negotiated war jobs, 3/10, p.69
New York invites subcontracts, 3/10, p.82
Peerless, shells, 2/18, p.70
Production pools, 6/2, p.68; 6/30, p.59
Renegotiation Bd. reviews requests, 1/14, p.30
Renegotiation deadline, 4/14, p.55
Ryan Aero., aft fuselage, 4/14, p.68
Sen. Moody protests, 4/21, p.44
Shipbuilding boom, 1/28, p.40
Ships oilers, cruisers ordered, 2/4, p.64
Small Business (see)
Solar, jet parts, 3/3, p.55
Surplus areas (40), 6/23, p.36
Tool subs reach 20%, 2/11, p.64
U. S.-Canada standardize orders, 3/24, p.49
Weapon subcontracts, 3/24, p.44
Westinghouse, electronics, 3/3, p.55
York, machine tools, 1/21, p.38

Depreciation:
See Amortization

Desulphurization:
Desulphurization worth watching, 1/28, p.76
Nitrogen injection desulphurizes quickly (Quebec plant), 1/21, p.80

Detinning:
Weirton plant methods, 1/28, p.70

Diamonds:
ASTE talks standards, 4/28, p.102
Diamond powder shortage for grinding wheels untrue, 6/16, p.70
Industry: Short suited in diamonds, 4/14, p.97
NPA cautions on supply, 3/24, p.41
See Books

Die Casting:
Business shortage, 4/7, p.85
Processing methods, YC, 1/7, p.307
Zinc die cast welded, leaflet, 4/14, p.123
See Machines

Dies:
Design developments, YC, 1/7, p.292
Die sets, IE, 2/4, p.174
Mechanical die feeds . . . more production, less effort, 3/17, p.86
Plastics replace metals, ENG, 1/28, p.63
Shearing die life prolonged by carbide inserts, 6/9, p.93

Drafting:
Bellows convolutions, 4/7, p.174
Blueprint composites, ENG, 3/17, p.83
Boeing composites, ENG, 3/24, p.67
Drafting machine scales, IE, 3/31, p.128
Pattern, carbon paper used, pic., 2/18, p.108
Pattern-making more accurate, ENG, 2/18, p.93

Drawing:
Magnesium fabrication process, 5/5, p.101

Drilling, Tapping:
Portable bar centering tool speeds handling, 1/14, p.64
Precision drilling coolant table, IE, 3/31, p.125
See Machines
See Presses

Ductile Iron:
NBS expands data on additives, 4/21, p.104
Output, U.S.-Canada, ENG, 3/3, p.57

Dust Collectors, Filters:
Air line filters, IE, 6/2, p.165
Capacitor filters leads, IE, 1/28, p.89
Cloth bag dust collector, IE, 1/28, p.85.
Dual brushes control dust, IE, 4/23, p.124
Dust collector, IE, 2/25, p.124
Dust collector, 5500 cfm, 6/23, p.134
Dust filter, IE, 3/24, p.116
Electrostatic filtration: Dust out of air, 5/5, p.105
Filter-drains liquids, IE, 1/14, p.91
Filter web, IE, 3/17, p.125
Fume cooler system, 3/3, p.130
Nonclog filter bag, IE, 3/10, p.206
Respirators, DeVilbiss, 3/10, p.152
Separator filter removes liquid, vapors, IE, 5/5, p.174
Zinc dust recovery, Spang-Chalfant, 5/19, p.93

E

Eastern States Blast Furnace & Coke Oven Assn.:
Meeting reports, 3/3, p.84

Economic Stabilization Adm.:
AFL teamsters increase, 3/24, p.45
Feinsinger resigns, WSB, 5/12, p.52
Salary applications acted upon, 3/24, p.45
Salary Bd. formalizes steps for adjustments, 3/31, p.50
Small business, wage exemption expected, 1/14, p.17
Steel wage increases from 1950 (chart), 4/28, p.45
WSB (see Steel-CIO Dispute)
WSB undecided cases, 2/11, p.55
WSB interprets declining index, 6/23, p.50
WSB "joke and hoax", says F. C. Crawford, 3/31, p.37
WSB rules, commission earnings, retirements, 3/3, p.49
Wage, price formulas ahead, 1/14, p.25
Wage, salary high at Republic, 2/11, p.55
White-collar workers eligible for increase, 6/2, p.56
See Office of Price Stabilization

Editorials:
A Great Asset (ASTE convention), 3/24, p.35
A Great Service (State-of the Union address), 1/14, p.21
Another Freedom Threatened (compulsory union membership), 3/3, p.43
Clipping WSB Wings (tripartite board urged), 6/23, p.39
Dirty Work (Wilson resigns), 4/7, p.81
Guard Against New Assaults (Constitutional rights), 6/9, p.57
His Forgotten Oath (President), 6/16, p.63
Higher volume, lower profit, 2/4, p.55
Idle Resources (Gov't red tape), 2/18, p.61
Incentives and Freedoms ('52 prospects), 1/7, p.111
It Can Happen Here (dictatorship), 4/14, p.59
It's Your Fight, Too (seizure steel mills), 5/26, p.43
July 4—1776 and 1952!, 6/30, p.39
Let's Keep on Selling! (Better government, better acceptance of products) 6/2, p.59
Momentous Decision (Supreme Court-steel), 5/5, p.65
Point Four (economic missionaries), 2/25, p.43
Rotten Apples (book, corruption in gov't), 3/17, p.51
Safeguards Against Error (Colbert addresses Auto. & Aviation Parts Mfg.), 2/11, p.49
Showdown! (steel-seizure), 4/28, p.41
Step by Step to Ruin (Socialism) 3/31, p.41
Stockholders Are People (Washington attacks) 4/21, p.47
The Squeeze Is On! (Profits, indiv. enterprise) 5/19, p.57
Time for Action (President's budget), 1/28, p.31
To Heart and Head (presidential candidate), 1/21, p.29
Unneeded, Unwanted! (public expenditures), 3/10, p.73
Work To Be Done (public-employee relations), 5/12, p.55

Egypt:
Orders German steel mill, 5/12, p.69

Electric Power:
California expansions, 5/5, p.130
Large users need construction permits, 4/7, p.78
Surge of power in '52, 1/28, p.46
Utilities rationed, 1/28, p.47

Electrical Equipment:
Aluminum as power conductor seen, 4/7, p.167
Amplifier controls cold mill, 2/18, p.120
Angle fitting, IE, 4/7, p.198
Autotransformer boosts AEC's power, 6/30, p.100
Capacitors, tantalum foil electrolytic, ENG, 3/24, p.67
Capacitors for electronics, IE, 6/2, p.160
Ceramic trimmer capacitors, IE, 3/3, p.152
Business prospects '52, YC, 1/7, p.520
Circuit extensions, IE, 2/25, p.128
Circuits control cable, IE, 3/10, p.206
Circuit control, Regohm, IE, 3/3, p.152

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Conductor, aluminum stretched ENG 2/4 p.87
Connector IE 3/10 p.207
Current line for instruments IE 5/5 p.163
DC contactors IE 1/7 p.365
Electronic control relay IE 5/5 p.172
Equipment: Power goal problem 6/2 p.60
Fatigue (see [illegible])
Ferrites new for magnet core materials ENG 1/28 p.63
Fuse makers face shortages 1/21 p.36
Generators (see Motors, Generators)
Germanium rectifiers IE 3/3 p.150
Industrial electric heaters IE 4/7 p.198
Insulation, initial for transformers 1/14 p.64
Insulation: [illegible] insulate conductors IE 3/31 p.157
Insulators tested 4/7 p.162
Load break device IE 6/23 p.140
Magnetic controller IE 2/11 p.140
Microwave wiring 3/31 p.88
Overload relays IE 4/28 p.141
Overload release IE 3/3 p.139
Plug with locking device IE 2/4 p.172
Power exhauster IE 4/14 p.149
Preselector times operations IE 4/7 p.190
Rectifier orders 1/17 p.89
Rectifiers, GE types used 4/21 p.96
Relay, mercury plunger three way IE 1/28 p.153
Resistor for high current IE 6/23 p.141
Resistor, miniature power type IE 5/12 p.160
Resistors meet military specs 4/14 p.123
Selenium Rectifier 230 v 1/4" IE 3/10 p.204
Selenium rectifiers hermetically sealed IE 2/18 p.164
[illegible] type unit IE 6/16 p.190
Switch, [illegible] tube type IE 3/26 p.146
Switch, heavy duty IE 4/28 p.110
Switch, industry safety IE 6/30 p.112
Switch, reversing drum IE 6/30 p.111
Switch, rotating type IE 2/4 p.172
Switch, snap-action IE 6/23 p.141
Switch, time delay IE 6/16 p.188
Switch, waterproof toggle IE 2/4 p.173
Transformer bushing reduces breakage 5/26 p.121
Transformer tank wall bushings IE 6/30 p.108
Transformer weight reduced 4/14 p.120
Transformer welder redesigned IE 3/10 p.204
Variable transformer IE 3/3 p.177
Westinghouse data book 3/3 p.118
Westinghouse speaker predicts boom 3/3 p.140

Electrochemical Society

Meeting address 5/12 p.142

Electrodes

Electrode holder IE 3/31 p.131
Electrode holder IE 6/9 p.130
Electrode rejuvenates [illegible] cone adapter 2/11 p.85
Electrode stabilizer IE 5/5 p.171
EutecTrodes for cast iron IE 1/28 p.90
Gouging, chamfering electrode IE 3/10 p.204
Spot welding electrode IE 5/26 p.140

Electronics

Armed Forces program quickens 3/3 p.55
Chrysler balancing machine 3/24 p.54
Clock measures time in "shakes" 3/31 p.73
Copy milling machine electric eye 4/14 p.102
Defense output behind schedule 1/28 p.27
Detectors (see Instruments)
Digest published 4/21 p.83
Electrolytic grinding stubborn alloys less formidable 3/17 p.84
Electronic components meeting 5/5 p.136
Electrostatic filtration dust from air 6/9 p.105
Loudspeaker produces ionic cloud 2/18 p.93
Machine tool builders consider use 3/31 p.51
Miniaturization symposium 4/14 p.102
Mold sand mixes electronically weighed and controlled 2/18 p.110
Press load calculations: Electronics replaces theory 3/10 p.113
Shaping, finishing processes 4/14 p.128
Stationary electronic hammer forges metal to change 2/18 p.108
Subminiature equipment pool 4/7 p.90
Technical meetings scheduled 1/21 p.90
See Controls

Electroplating, Plating

Aluminum electrodeposited at room temperature 6/9 p.94
Auto trim (see Automotive)
Chromium plate fatigue tests 6/16 p.101
Chromium plating — new life for worn parts 3/31 p.80
Nachtman process B 1/1 p.571
Pump adds plating agents IE 1/7 p.390
Silver plating without buffing IE 3/3 p.154
Tin plate flow brightening speeded by preheating 2/11 p.129
Tin plating advances 1/21 p.66
See Chemicals
See Machines

Employment, Unemployment

Compensation: Moody-Dingell bill 3/3 p.56 and 61
Compensation studied by House 3/31 p.52
Defense Distressed Areas Task Force dissolved 6/2 p.63
Detroit investigated 1/28 p.38
Detroit preferential treatment 2/11 p.54
Detroit recession, pros, cons 2/11 p.68
Detroit political football 3/3 p.61
Detroit, Flint, Grand Rapids easing 6/2 p.63
Employment '52 peak expected 1/14 p.25
Hardship areas (see Defense Contracts)
Metalworking employment NPA survey 3/3 p.48
Production workers U.S. 2/25 p.50
Production workers mfg. number Jan. 3/3 p.67
Steel employment 5/19 p.62
Tractor industry faces layoff 3/17 p.56
UAW's supp. program 1/7 p.154
Work stoppages fewer in '51 1/14 p.26

Engineers

ASTE scholarship aid sought 3/10 p.70
GM Mechen reports at Michigan State exps. 6/2 p.136
Graduates salary start 6/2 p.36
Shortage: Dr. Kettering predicts 3/31 p.38
Survey: poor training for management leadership 5/26 p.75
TV radio engineers needed 4/14 p.67
Tool engineer — his imagination pays off in production 3/10 p.106

Engines

Aircraft K-F 2/18 p.79
Air compressor design rev. IE 2/18 p.151
Air compressor (Ford) 10,000 cfm 3/3 p.102
Air consumption tested 2/25 p.106
Bimetallic piston license Australia 2/25 p.114
Catalytic engine dev. 1/21 p.79
Caterpillar diesel, pr. 5/19 p.73
Copper lead bearings developed for slow speed diesels 2/4 p.94
Diesel torque converters 6/16 p.104
Engine preheating equip. 6/16 p.169
GM 16-cylinder diesel 6/30 p.75
GM truck engine 5/26 p.118
Jeep engine improved ENG 2/25 p.75
Jet blade GE fabricating ENG 2/25 p.75
Jet [illegible] metals improve life 5/19 p.104
Jet cones welded 2/11 p.111
Jet engine starter B 1/1 p.571 ENG 1/21 p.61
Jet metals used YC 1/7 p.257
Jet range extenders for Korea 4/21 p.58
Jets (see Machining)
LP gas engines underwriters list 2/25 p.102
Mechanical octanes built in 4/7 p.158
Single-cylinder diesel IE 6/2 p.152

Erie Railroad

Plans maintenance shop B 3/17 p.169
Repair shop contract B 5/26 p.175

Europe

Await impact of steel strike 6/9 p.71
Coal target OIT 1/14 p.35
Foreign aid resources survey 1/7 p.117; 4/14 p.56
Foreign aid (see Gov't, FTC, MSA)
IMC allots raw materials 1/28 p.45
Iron ore Swedish shipments 1/28 p.45
MSA (see Government)
Shuman Plan voted 4/21 p.43
See Foreign Trade

Expansions

Aluminum, DPA seeks 4/21 p.32
Aluminum "beyond reason" 4/28 p.37
Bethlehem Lackawanna furnace 4/7 p.86
Defense cost at halfway mark 1/28 p.47
Defense expansion midpoint 4/21 p.36
Detroit Steel Portsmouth 6/23 p.44
Fasteners: Expansion goal 6/23 p.49
Industrial, prior consultation with gov't required 6/23 p.35
Kaiser Steel furnaces 3/10 p.80
Lone Star wants full write-offs 5/26 p.58
Los Angeles aircraft plants 2/11 p.57
Oil-gas industry 1/14 p.26
Republic Steel program 4/7 p.76
Screw machine industry plans 6/9 p.54
South American steel plants 2/11 p.63
Steel companies 3/10 p.80
Steel industry '52 plans 2/11 p.54
Steel ingot by companies 3/3 p.51
Steel industry seizure results 4/28 p.45
See Amortization

Exports, Imports (See Foreign Trade)

Extracting

Lithium sulphate extracted 5/19 p.94
Pure metals from ore concentrates chemical process 5/26 p.76

Extrusion

Aluminum extruders listed 3/10 p.78; 3/24 p.32
Extrusion plus forging simplifies aluminum forming 1/14 p.54
Fiberglass sheath, glass as lubricant makes stainless extrusion practical 6/2 p.92
J&L to use process (Ugine-Sejournet) 4/28 p.46
Magnesium fabrication 5/5 p.100
Revere Copper shipments 3/17 p.59
Steel extruding — puts squeeze on conventional forming 3/17 p.88
Stainless tubing hot extruded French process 4/21 p.79

F

Fabrication & Assembly

Aircraft stamping: No more bits, pieces (one-piece fabricating trend) 4/21 p.96
Galvanized-steel angle for all-purpose fabrication 2/25 p.128
Jet stator blades GE process ENG 2/25 p.75; 3/3 p.110
Magnesium fabrication lower finished costs 5/5 p.98
Methods new YC 1/7 p.379
Motorized line speeds manifold assembly 6/16 p.149
Parker Appliance jet engine parts 3/31 p.78
Steering assembly parts production heat treated 2/11 p.82
Stitching (see Machines)

Fans & Blowers

Airfoil fan test 2/4 p.141
Enclosed dual-cooled motor 6/9 p.132
Enclosed fan-cooled motor IE 3/17 p.129
Design cures blower surge 3/3 p.86
Fan belt-driven IE 6/16 p.188
Fan cuts fumes, vapors IE 6/30 p.103
Fan heavy-duty belt IE 3/24 p.148
Fan panel vent sets IE 2/4 p.172
Fan uses airfoil propellers IE 3/3 p.146

Farm Equipment

Agricultural duster, sprayer demand 4/7 p.158
Electric generator demand 2/18 p.72
Electrical machinery boom 3/17 p.48
Equipment shortage eases 2/18 p.77
Machinery: Agriculture Dept. research 3/3 p.56

Fasteners, Fastening

Bolt sizes chart 2/25 p.113
Carbide rivet sets IE 3/24 p.123
Clamping cylinders on metal forming bulldozer IE 3/10 p.193
Clamps for large planers IE 3/3 p.154
Clamps, self-setting IE 2/25 p.131
Clinch nut locking IE 1/21 p.96
Clip fastens panels IE 6/9 p.153
Collets and feed fingers anchored IE 3/24 p.116
Die clamping cylinders replace bolts on metal forming bulldozer IE 3/10 p.193
Drills locked to jig 4/4 p.132
Fastener sizes standardized 4/21 p.86
Fasteners: Expansion goal 6/23 p.49
Floating anchor nut IE 5/12 p.166
Head rivet IE 2/4 p.174
Kaylock gang channel IE 2/4 p.174
Link Lock device IE 4/7 p.198
Locknuts hold at 550° F IE 2/18 p.167
Lockbolts save repair time 3/24 p.89
Lock-plug IE 2/4 p.172
Mounting clamp, air-operated IE 4/7 p.198
Nonbinding flask pin IE 1/28 p.89
Nut runner air-powered IE 3/31 p.126
Processing methods YC 1/7 p.380
Rivet diameter drive IE 5/19 p.158
Rivets used in welding 4/14 p.132
Setup accessories IE 6/23 p.143
Spirol pin IE 2/4 p.174
Thread-cutting screw IE 6/23 p.143
Toggle bolt IE 6/30 p.111
Tooling can be cheaper: Quick-acting fasteners 2/18 p.98
Trunnion in clamp IE 4/7 p.200
Tru-Set fasteners IE 4/7 p.200
Wrenching nut external IE 3/31 p.126
See Standards

Felt

Felt for finishing — metalworking applications expand 2/4 p.88
Pads aid machinery mounting 1/21 p.75

Files

See Tools (Cutting)

Films

Microfilm splicer 5/26 p.126
See Motion Pictures

Filters:
See Dust Collectors, Filters

Filtration:
Trion principle, 5/5, p.105

Financial:
Automakers (GM-Chrysler-Studebaker) annual report, 3/24, p.53
Corporate taxes, industry comment, 1/7, p.119
Executives deferred payment plans, 2/18, p.58
Fairless lists tax loss, 2/11, p.55
GE report, 3/17, p.57
GNP '51 prospects in '52, 1/7, p.107
Greek aluminum company gets U. S. loan, 3/31, p.38
Hudson Motor Car report, 4/7, p.100
Metalworking earnings-sales, 2/11, p.56
Mexico gets World Bank loan, 1/21, p.43
National payroll swells, 5/26, p.56
Per Capita fed tax, 2/4, p.52
Personal income figures, 6/16, p.[illegible]
Republic pay: wages, salaries, 2/11, p.56
Salary-bonus, chief sales executives, 6/9, p.54
Steel companies listed, earnings, sales, 2/4, p.61
Steel financial analysis, 4/21, p.58
Taxes 1952, 1/14, p.17
Taxes, excise, corporate, individual income (scale), 2/11, p.76
Taxpayers reform, 3/10, p.84
See Capital Expenditures
See Expansions

Finland:
Generator pilot-tie installed, pic., 2/25, p.57

Finishes, Coatings, Paints:
Accelerated phosphate coating, 5/12, p.92
Aluminum coatings resist abrasion, 2/18, p.110
Aluminum coating, Tri-Tex Protex, IE, 5/26, p.144
Auto finishes, 1/7, p.158
Belt dressing, 6/16, p.156
British metal pretreating (coat), ENG, 5/26, p.75
Ceramic coats, civilian uses, 5/5, p.139
Ceramic tests (see Inspection)
Ceramic coatings (chart), 6/16, p.157
Coated abrasives ease jet blade finishing problems, 6/9, p.90
Cold strip coating (Stripper N), IE, 4/14, p.166
Copper coating (Redskin), IE, 4/14, p.166
Corrosion resistant coating, IE, 1/21, p.95
Finishing show scheduled, 4/2, p.114
GM "Aldip", 6/16, p.82
Hydrogen defects result of water in frit, ENG, 1/21, p.61
Lacquer thinner, ENG, 3/24, p.57
Laminated fiberglas finishing tanks, IE, 6/9, p.148
Masonry paint, one-coat, IE, 5/19, p.163
Metal spray for printing equipment, 3/3, p.101
Metallic acetate coatings, chart, 3/3, p.133
Military vehicles sprayed for storage, 3/24, p.81
Military vehicles spray, "mothballed", 3/10, p.88
Neoprene coating, a synthetic rubber, 3/3, p.97
Oil stripper for metal coating, IE, 1/21, p.95
Paint fences with long brushes, 3/10, p.158
Paint protects metals, IE, 1/14, p.87
Paint spraying heater, 4/7, p.170
Phosphating (see)
Plastic molds metal sprayed, 5/26, p.116
Plastic paste protects plating tanks, 2/18, p.145
Porcelain enamel adherence studied, 5/12, p.118
Porcelain enamel, firing temperatures controlled, 2/25, p.82
Porcelain enamel researchers report coatings conserve scarce alloys, 4/7, p.116
Primer-black, fast drying, IE, 2/11, p.147
Rust protector, liquid stainless steel, IE, 1/21, p.99
Rust preventive paint, IE, 1/7, p.552
Rust preventive, IE, 1/14, p.87
Slurry coating protects aluminum from iron pick-up, 6/9, p.122
Spray gun, IE, 4/21, p.134
Stainless paint for electrical equip., ENG, 1/28, p.63
Thermosetting furan coating, IE, 6/9, p.153
Tygerust, a vinyl primer, IE, 2/11, p.142
Vanderloy M and Borus-Krome coating for bearing surface, 2/18, p.104
Varnish, electric insulating, IE, 3/17, p.141
Varnish insulating, IE, 1/28, p.89
Varnish insulation curing, 4/14, p.132
Vinccote paint spray, IE, 3/3, p.152
Water repellent silicone base, IE, 3/24, p.123
See Surface Treatment

Fire Equipment:
Carbide dioxide systems, IE, 6/21, p.179
Extinguisher, corrosion free, IE, 1/14, p.88
Extinguisher, corrosion proof, IE, 5/5, p.172
Extinguisher, portable, IE, 3/24, p.120
Fog nozzle for large fires, IE, 3/31, p.128
Fog nozzles, stainless, IE, 5/5, p.177
Sprinklers use air foam, 4/21, p.107
See Chemicals

Fittings: (See Pipe, etc.)

Floors:
Concrete patch, IE, 5/26, p.144
Concrete reinforcement, IE, 3/3, p.152
Patching material, IE, 3/17, p.136
Sand conditioner, IE, 3/3, p.140
Steel matting, 4/7, p.149
Trowel-In repairs, IE, 2/11, p.144
Vacuum, portable, IE, 4/28, p.136

Flux:
Brazing flux, IE, 3/24, p.116
Gas welding flux, IE, 6/2, p.162
Soldering flux, IE, 5/12, p.169

Foreign Trade:
American branches abroad, 3/31, p.55
Belgium limits trade to E.P.U., 2/4, p.65
Copper exports licensed, 6/2, p.73
Dollar trade curbs reappear, 4/28, p.55
Ekco forms international corporations, 3/31, p.55
Europe questions protective duties, 5/5, p.79
Export license applicants to file with OIT, 6/23, p.47
Ferrochromium imports up, 4/14, p.67
Foreign aid (see Gov't)
German export trade growth, 6/9, p.71
IBRD loan to Pakistan, 4/21, p.63
IBRD loans, 5/5, p.79
IMC distributes raw materials, 1/28, p.45
IMC "Cooperative or cartel", 6/16, p.77
IMC report, 5/26, p.57
Iron ore imports rising, 4/14, p.56
Iron Ore, Robbing Peter to pay Paul (revised trade pattern), 1/28, p.45
Japan changes trade policy, 2/25, p.58
M37 tank import requirements, 1/28, p.27
MSA contracts, American firms, 5/26, p.57
Machine tool imports (dollar-volume), 6/9, p.71
Machine tools from Europe, 1/14, p.35
Scrap export quotas, 2nd quarter, 5/5, p.79
Steel - aluminum - tin swap with Britain, 2/25, p.57; 3/10, p.87
U. S. foreign trade, A mixed blessing, 2/25, p.57
Wire products export quotas raised, 4/21, p.63

Forging:
Air Force heavy forge program (see Air Force)
Air Force salt bath for steel billets, 6/16, p.104
Alloy output up, 5/19, p.62
Aluminum forming simplified by extrusion-forging, 1/14, p.54
Cold forging no heat, ENG, 3/31, p.73
Hydrogen causes embrittlement of forged compressor blades, 3/24, p.76
New developments, YC, 1/7, p.290
Production methods, YC, 1/7, p.301-4

Forming, Bending:
Aluminum forming simplified, extrusion plus forging, 1/14, p.54
Chromium stainless (Type 430) formed, 6/9, p.95
Cold heading metal parts, 4/21, p.88
Magnesium fabrication (lower finished cost), 5/5, p.98
Electroformed mold, ENG, 2/11, p.81
Electromechanical processes in shaping, finishing, 4/7, p.120
Hydraulic press (1000-ton) hot forms body parts in railway car, 6/16, p.141
New developments, YC, 1/7, p.290
Precision spinning (Riverside Metal) solves ticklish forming problem, 3/24, p.68
Stampings formed faster, Leake Co., 2/4, p.90
Seamless tubing formed using glass as lubricant, extrusion process, 6/2, p.92
Steel extruding puts squeeze on conventional forming, 3/17, p.88
Titanium rings formed, Bath method, 2/11, p.108

Foundry:
Core grinder, 3/10, p.163
Magnesium foundry at Teterboro transfer to Navy, 4/14, p.56; Senate O.K., 4/21, p.44
Magnet pulls iron from sand, 3/10, p.170
Mold sand mixes electronically weighed and controlled, 2/18, p.110
New process reclaims borings, 6/2, p.97
Newsletter on Productivity, 3/3, p.120
Production methods new, YC, 1/7, p.301
Shortages of iron scrap if licensed, 6/23, p.23
See Books
See Casting

France:
Aircraft machine tools, U. S. aid, 3/17, p.67
Auto output up, 3/24, p.49

Freight, Freight Rates:
Aircraft—see rates high, 4/21, p.44
Carbuilding program, 4/21, p.55
Knudson request, DPA, 3/24, p.50
Railroads get 15% freight rate hike, 4/21, p.55
Railroads study rates, 1/14, p.18
Rate hike puts distant mills at disadvantage, 4/28, p.48
Rate hike, Rocky Mts., 5/19, p.54
Revenue carloadings low, 3/3, p.65
Steel basing point case, FTC, 5/5, p.71
See Shipments

Fretting:
Corrosion really physical change, 5/19, p.103

Fuels:
Institute, U. of Wis., 4/28, p.114
Oil and gas expansions, 1/14, p.36
Oil from coal closer, ENG, 6/2, p.91
Oil from coal, DSFA predicts new future, 6/23, p.46
See Gas
See Oil

Furnaces, Ovens (Heating, Heat Treating, etc.):
Aluminum bar heating furnace, IE, 6/30, p.103
Box furnace adds, changes sizes, IE, 1/21, p.86
Box type forges dental tools, pic., 1/28, p.36
Car system used in continuous heat treating of tank components, 3/31, p.106
Crucible furnace line, IE, 4/16, p.186
Disston revamps furnaces, 5/3, p.50
Electric furnace construction trends, 1/7, p.230
Electric furnace heats (computing methods), 1/21, p.72
Electric melting furnaces, large, 1/7, p.227
Furnace design, 3/24, p.94
Furnace gas fires boiler, 4/14, p.198
Furnace preheats, dewaxes, 3/3, p.86
Heat-treating furnace for small tools, IE, 1/21, p.85
Heat-treating furnace, Waltz, IE, 3/24, p.113
Instrumentation improves quality of product, 6/30, p.90
J & L furnace restores carbon, 3/31, p.102
Mechanical convection oven, IE, 2/4, p.169
Melting pot furnace tilts hydraulically, IE, 3/31, p.121
Prefabricated electric oven, IE, 3/31, p.120
Precision casting furnace, IE, 4/14, p.165
Quebec gets furnace, 2/25, p.58
Radiant heat accelerates tin plate annealing, 4/14, p.106
Radiant oven adapts to job, 6/23, p.77
Rust builds for Nat'l Tube, 5/26, p.107
Single-stack annealing furnace used by narrow strip mills, 5/12, p.98
Welding oven dries electrodes, IE, 5/26, p.139
See Books, Booklets
See Controls
See Heat Treating & Annealing

G

Gaging (See Instruments)

Gaillard Seminar:
Standardization meeting scheduled, B, 4/7, p.227

Galvanizing:
Committee meets, 4/7, p.172
Spang-Chalfant zinc dust recovery, 5/19, p.93

Garages:
Park-O-Mat parking, pic., 1/21, p.45

Gas:
Alcohol-gas mix, Armour test, 3/24, p.46
Carbon removed from synthesis, ENG, 6/2, p.91
Flame limits listed, 4/7, p.161
Furnace gas fires boiler, 4/14, p.198
LPGA formed, 6/9, p.180
LP capacity good, 5/19, p.62
LP engines, underwriters list, 2/25, p.102
LP for engines, Inter'l Harvester and Reo, 2/18, p.79
Natural gas facilities expand, 2/25, p.58
Synthetic gas, Ebasco estimates costs, 5/12, p.70
See Fuels

General Services Adm.:
See Government

Generators: See Motors & Generators

Germany:
Export trade growth, 6/9, p.71
Free pricing system nears reality, 4/21, p.63
New steel policy, 2/18, p.75
Raw steel production, 6/2, p.73
Shuman plan ratified, 1/21, p.43
Scrap member, 6/2, p.73
Steel production, 4/21, p.63
Tool makers, perambulatory, 3/21, p.49

Government:
Andrews, TCA adm., 5/5, p.75
Antitrust suits, more soon, 1/28, p.28
Books:
  Steel output per basic open-hearth, castings, defense agencies directory, 4/28, p.52
Buchanan succeeds Wallgren, FPC, 1/14, p.32
Bureau of Mines:
  Lithium sulphate extracted, 5/19, p.94
  Manganese ore test, 4/14, p.111
  Powder explosion reduced, 3/3, p.128

Code: B—Briefs, ENG—Engineering and Production News, IE—Industrial Equipment, YC—Yearbook Comment

Cartels (IMI): Cooperative of cartels, 6/16, p.77
Celler Bill: court right restricted, 3/24, p.46
Chapman attacks power interests, 3/24, p.46
Congressional commission: Sen. Kem urges, 5/26, p.54
Election forecasts, 1/14, p.32
Employment compensation studied, 3/31, p.52
FTC:
  Clayton Act defects, 3/10, p.84
  Fair Trade Bill opposed, 5/19, p.68
  Fair trade rules book, 4/21, p.60
  Radiation deadline, 2/25, p.58
  TV ban lifted, 4/21, p.43
Federal Catalog bill, 6/30, p.56
Ferguson-Dearborn lawsuit settled, 1/14, p.56
Federal Register price, 4/21, p.60
Foreign aid: President's program, 3/17, p.67
Foreign aid expenditures, 4/28, p.52
Foreign aid bill voted, 6/9, p.71
GSA:
  Further standardization, 5/26, p.105
  Handbook, emergency activities, 4/28, p.52
  Mica purchasing, 6/16, p.70
  Production pools: Builders reject, 2/4, p.59; New England mfg. order, 6/16, p.74; status (chart), 6/16, p.74; total orders, 2/11, p.64
  Savings '51, 2/4, p.66
  TV lab Colo., 6/2, p.65
Industry advisory membership requirements, 2/11, p.60
Invention secrecy act, 2/25, p.54
Inventors incentive system, 2/18, p.72
Inventory needed (prices takes raw materials), 1/7, p.123
Inventory pricing: Lifo, 5/5, p.80
Labor law proposals, 5/19, p.61
Labor: Senators state tripartite system unconstitutional, 4/21, p.60
MSA:
  Agency takes over, 1/14, p.35
  Britain gets funds, 2/4, p.65
  Far East aid, 1/28, p.45
  Italy Finsider group aid, 1/28, p.45
  Technical aid, 3/10, p.87
  U. S. exports up, 3/10, p.87
Maritime Adm.:
  Merchant marine '52 prospects, 1/7, p.528
  Merchant marine "vital", 6/2, p.74
  Ship salvagers wanted, 3/31, p.52
  Shipping subsidies need, 6/9, p.68
Materials Policy Commission, Paley chairman, 6/30, p.46
Mine safety bill, 5/19, p.68
Minerals metals board, 2/4, p.63
Moody-Dingell bill, 3/3, p.56
Morse Bill "struck plants seizure", 5/12, p.66
Munitions Bd.:
  Sabotage measure, 2/25, p.54
  Standards: Army engines, 3/3, p.56
  Standards, catalog system, 4/7, p.88
  Standards, gasoline engines, 6/2, p.70
NLRB:
  Concentration of union power, Continental Baking decision, 6/30, p.56
Neeley-Humphrey proposal, plant safety, 2/25, p.54
O'Konski charges (Kaiser) refuted, 6/23, p.58
Patents (see)
Point Four:
  Foreign investments, 5/19, p.68
  Personnel organized, 4/7, p.92
  Shift to industrialization, 4/14, p.55
Procurement (see)
RFC:
  Koch and Gadsden loan, 2/25, p.53
  Publicize loans, 5/5, p.76
  Regional loans, 5/5, p.75
  Shanango-Agaloy loan, 2/4, p.61
  Symington leaves, Nelson acting, 2/18, p.58
  Trenton Steel drops bid, 6/16, p.71
  Small firms loans, 5/26, p.59; 6/2, p.67
Regulations distributed by Commerce Dept., 4/21, p.60
Research spending '52, 2/18, p.58; 4/28, p.38
Resources survey, 1/7, p.117; 4/14, p.56
Rubber Act to President, 6/30, p.56
Sawyer criticizes SIPS, 1/28, p.28
Social security to members, 1/21, p.40
Stanley warns on investigations, 4/28, p.52
Steel plants seized, 4/28, p.45
Taxpayers reform, 3/10, p.84
Technical aluminum guidebook, 6/23, p.90
Technical men wanted abroad, 1/21, p.40; 5/19, p.68
Technical reports listed, 6/23, p.77
Underwater welding manual, 6/30, p.79
Voluntary credit restraint tabled, 5/12, p.52
Walsh-Healey filing deadline, 4/14, p.56
Water bill: O'Mahoney report, 2/4, p.66
Water bill sought, salt into fresh, 6/16, p.74
Water industry shortage studied by Agriculture, 6/9, p.68
White House beams USSR mark rumored, 5/19, p.68
Wiewel adviser to Sawyer, 4/28, p.46
Wunderlich Contracting case, 3/17, p.62
See Defense
See Controlled Materials Plan

Gray Iron Founders Society:
Production methods new, YC, 1/7, p.301-2

Great Britain:
Abbey Works (Wales) on part time, 3/31, p.55
Acid plant from copperas, ENG, 4/28, p.73
Barry-Wehmiller Machinery formed, 3/31, p.55
Churchill barters for raw materials, 1/21, p.43
Denationalization steel: Conservatives would compromise, 3/24, p.49
Denationalization transport industry may take precedence over steel, 5/12, p.69
Engineering plants work short weekends, 4/21, p.168
Hardie resigns British Iron & Steel Corp., 3/10, p.87
Humber Motor Wks. layoff, 3/10, p.87
Italians barred from U. K. mines, 6/2, p.73
MSA funds, 2/4, p.65
Productivity teams, results, ENG, 5/26, p.75
Steel-aluminum-tin swap, 2/25, p.57; repercussions, 3/10, p.87
Tanks produced by American tools, 5/12, p.69
Wage demands inopportune, 6/2, p.73

Grinding, Polishing:
Book: Fundamentals of Grinding, 2/18, p.130
Coated abrasives ease jet blade finishing problems, 6/9, p.90
Electrolytic grinding: Stubborn alloys less formidable, 3/17, p.84
Felt for finishing metalworking applications expand, 2/4, p.88
Grinding wheel wear report, ENG, 3/3, p.75
Processing methods, YC, 1/7, p.364
Shaping, finishing horizons widen, 4/7, p.120
See Machines

Guide:
For selecting tool steels and carbides, 6/16, p.107

H

Hardening:
Boron hardenability boon in alloy shortages, 2/18, p.107
Boron hardenability (heat treating boron steels), 5/12, p.94
Closer hardenability control for silicon-chromium steel, 4/7, p.114
Lawn mower blade tempering, 2/4, p.147

Heat Treating & Annealing:
Accurate methods for computing electric furnace heats, 1/21, p.72
Austenitics: care when heat treating, 6/9, p.98
Brass grain size in jewelry making controlled, 6/2, p.96
Carbon steels: improved treatment, ENG, 2/11, p.81
Coke consumption rate determines furnace charge, 2/4, p.91
Continuous annealing accelerated with radiant heat, 4/14, p.106
Continuous annealing steel strip, YC, 1/7, p.308-316
Continuous annealing, tin plate, 4/14, p.106
Continuous heating furnace heats aluminum cakes (box), 6/2, p.138
Crucibles float, melting, ENG, 3/24, p.67
Electric furnace heats computed, methods, 1/21, p.72
Firing temperatures controlled in porcelain enamel output, 2/25, p.82
Heat-treated rolls engraved automatically, 3/24, p.89
Heat treating boron steels: machinability can be improved, 5/12, p.94
High top pressures for smoother furnace operation, 3/3, p.89
Lawn mower blades tempered, 2/4, p.147
Precise heat treatment for metal forming dies, ENG, 5/19, p.89
Production heat treating (steering assembly parts), 2/11, p.82
Radiant oven panels adapt to job, 6/23, p.77
Rare metals require precision furnacing, 3/3, p.76
Single-stack annealing furnace employed by narrow strip mills, 5/12, p.98
Steel stabilized by heating and sub-zero, ENG, 4/14, p.91
See Induction Heating

Heating:
Buick radiators hung from ceiling, 6/23, p.122
Burner, gas-oil, IE, 3/31, p.126; 5/26, p.136
Chromalox industrial heaters, IE, 4/7, p.198
Electric furnace heats computed, 1/21, p.72
Firing temperatures controlled, porcelain enamel output, 2/25, p.82
Furnace gas fires boilers, 4/14
Furnace preheats, dewaxes, 3/3, p.86
p.198
Live steam speeds action of cleaning solutions, 6/23, p.71
High frequency heating unit, IE, 6/30, p.110
Portable furnace, dual-purpose, IE, 6/23, p.136
Portable units, IE, 2/4, p.176
Prefab metal ceiling panels for radiant heating, cooling, ENG, 5/12, p.87
Radiant oven panels adapt to job, 6/23, p.77
Rubber mat-radiant heater for mine operators, 5/26, p.124
Shortage of units, 5/12, p.70
Strip heaters warm hopper cars, 2/11, p.122
Thermal indicators made of paper, ENG, 3/17, p.83
Thermobloc unit, IE, 5/5, p.166
Waste steam heats plant, 6/30, p.75
See Controls

Hobbing:
Die steel, 2/18, p.142

Honing:
Piston rings, 3/10, p.92

Housing:
Construction: Still high, 2/4, p.61
Credit-construction controls may be relaxed, 4/21, p.43
Defense housing snag, 3/24, p.32
Incinerators added, 6/16, p.60
Portables, HHFA tests, 4/21, p.168
Portables, 5/19, p.73
Pre-fabs near peak, 3/3, p.48
Private building up, 3/24, p.40
Private home construction stimulated, 6/9, p.64
Reg. X modified: down payment chart, 6/16, p.69
Reg. X only obstacle, 5/5, p.75

Hydraulic Institute:
New president, B, 3/17, p.165

Hydrogen:
Faster hydrogen analysis, Navy, 6/23, p.90
Hydrogen causes embrittlement of forged compressor blades, 3/24, p.76
Hydrogen produced defects in coated steel result of water in frit, ENG, 1/21, p.61

I

Idaho Mining Assn.:
Black Bird mine, pic., 4/21, p.81

Illinois Institute of Technology:
Armour Research Foundation:
  Alcohol-gas mixture test, 3/24, p.46
  Beryllium toxicity study, 4/7, p.113
  Diffraction charts, B, 2/4, p.203
  Donates sintering machine, B, 4/21, p.163
  Flame resistance check of sound conditioning material, 5/19, p.144
  Radiation detector, 5/5, p.152

Illuminating Engineering Society:
Great Lakes conference, 5/12, p.144

Imports, Exports:
See Foreign Trade

Incentive Plans:
Book, incentive management, 3/31, p.113
Crucible posts pic.s, suggestion award winners, 2/11, p.54
Lincoln Electric system vindicated by U. S., 4/7, p.78
National Inventors Council, 2/18, p.72

Induction Heating:
Booklet, Magnethermic, 3/3, p.92
Plating preheating speeds tin plate flow, 2/11, p.129
Plug-in induction heating for extrusion billets, 4/7, p.118
Silicon-chromium, closer hardenability control, 4/7, p.114
Surface scale removed from metal, ENG, 4/28, p.73

Industrial Diamond Information Bureau:
Book, grinding wheel truing, 4/28, p.99
See Diamonds

Industrial Furnace Manufacturers Assn.:
Meeting, nickel allocations sought, 1/28, p.37; 2/4, p.62; 5/19, p.62

Industrial Fasteners Institute:
Fastener manual rev., 6/2, p.144

Industrial Heating Assn.:
Bulletin, unit heater care, 4/28, p.118

Inserts:
Defense directory, 1/7, p.143
Guide for selecting tool steels and carbides, 6/16, p.107
Steel financial analysis, 4/21, p.58

Inspection, Testing:
Air consumption-engines, testing system, 2/25, p.106
Cadmium crystal for x-ray inspection, ENG, 2/4, p.87
Conveyorized inspection table, IE, 3/10, p.196
Beta-ray gaging controls abrasive coating thickness, 6/9, p.96
Betatrons probe tank castings, 5/12, p.136
Ceramic coatings measured, Ryan, 3/31, p.101
Ceramic coatings test, companies combine, 4/28, p.114
Copper creep studies, 3/3, p.94
Fatigue test, airplane wing skin, pic., 2/11, p.120
Fatigue test, chromium plating solutions on steel, 6/16, p.104
Fatigue testing, holding fixtures simplify, 2/18, p.97
Fatigue test, Lockheed, 3/10, p.162
Field plotter, GE, IE, 2/18, p.156
Fluorescents (see Lighting)
Gage checking, Army, 5/19, p.134
Gages (see Instruments)
Hagan, testing control system, 4/14, p.100
Hot gears test oil, ENG, 5/19, p.89

Code: B—Briefs, ENG—*Engineering and Production News*, IE—*Industrial Equipment*, YC—*Yearbook Comment*

Laboratory tests select best blast cleaning method, 1/21, p.62
Lathe vibrations pinpointed, 6/2, p.99
Manganese ore tests, 4/14, p.111
Military lack of follow-through, ENG, 5/26, p.75
Monochromatic light measures light wave, IE, 2/4, p.179
Nuclear gaging controls abrasive coating thickness, 6/9, p.96
Ore reaction in pig-iron blast furnace, 2/25, p.112
Pipeline analyzer solves flow problems, 5/26, p.84
Production gaging, 5/12, p.88
Pump testing costs reduced, 4/21, p.94
Radioactive tracers test tool life, 6/16, p.146
Radiographic check, Ford aircraft, 6/9, p.129
Radiography survey; atomic wastes, 6/9, p.126
Radiography shows welding defects, 6/30, p.98
Radioisotope cobalt "cuts" inspection time, castings, 3/3, p.78
Shock testing, Navy, 2/18, p.126
Spectroscopy-infrared, MIT study, 4/7, p.154 & 161
Spectrographic analysis, railroads, 5/26, p.87
Spot testing aluminum alloys, 1/28, p.67
Steel checked for carbon, 3/3, p.126
Surface roughness tested by "Caliblocks", 2/18, p.68
Temperature compensator test, 4/21, p.116
Testchamber for electrical devices, Wright center, ENG, 1/21, p.61
Thermometers resistance, ENG, 2/11, p.81
Water-hardness tests by Swiss scientist, 3/24, p.89
Ultrasonics: Inspection applications grow, 6/16, p.99
See Books
See Instruments
See Machines
See X-Ray

Installations:
See Maintenance

Institute of Scrap Iron & Steel Inc.:
Seminar enrollment, Carnegie Tech, 4/21, p.59

Instrument Society of America:
Conference, 2/25, p.109

Instrumentation:
Instrumentation improves quality of finished product, 6/30, p.90
Instrumentation of furnaces, 2/18, p.136

Instruments:
Aircraft gyro indicators, precision spinning tech., 3/24, p.68
Amplifier for rack mounting, IE, 5/19, p.160
Automatic time calculator, IE, 6/30, p.115
Beta gage checks rubber roll, 4/7, p.162
Beta-ray gaging controls abrasive coating thickness, 6/9, p.96
Betatron probe tank castings (Army), 5/12, p.136
Calculator shows brake and clutch needs, 4/21, p.88
Calculator shows ton-pressure for holes, 2/18, p.128
Chemists view lab tools, 3/3, p.107
Counter-chronograph, microsecond timing, ENG, 6/9, p.89
Counter-dual predetermined, IE, 1/21, p.85
Electronic current use, IE, 5/5, p.161
Extensometer, indicates elongation, IE, 3/3, p.154
Flame detector probes jet combustion, ENG, 5/5, p.97
Flowmeter, direct reading, IE, 1/14, p.87
Gage inspects small bores, IE, 6/16, p.181
Gage measures ceramic coating, 3/31, p.101
Gage (Philips) Eastman, 6/23, p.101
Gage-reflex sight measures liquid level, IE, 5/12, p.169
Gage-thread ring, IE, 1/14, p.86
Instrument cable no vibration, ENG, 3/17, p.83
Instrument mount cushions vibrations, ENG, 2/18, p.93
Instrument pen, IE, 3/31, p.128
Lathe vibrations detector, 6/2, p.99
Lineal measuring actuators, IE, 6/30, p.115
Magne-Probe detects flaws, ENG, 3/24, p.67
Master balls set comparator gages, IE, 5/12, p.164
Mercury detectors, IE, 5/26, p.135
Metallograph, desk-type, IE, 6/2, p.149
Meters gage moisture, 4/14, p.127
MIT spectroscopy course, 4/7, p.154; instrumental analysis course, 4/7, p.161
Micrometer has nonrotating spindle head, IE, 5/19, p.158
Micrometer measures bore holes, IE, 4/28, p.138
Microscopes, dark field, IE, 1/28, p.85
Moneca, pic., 1/28, p.41
Nuclear gaging controls abrasive coating thickness, 6/9, p.96
Oscillograph film holder, 6/30, p.99
Petroleum product analyzer, ENG, 5/5, p.97
Power frequency amplifier, IE, 4/21, p.123
Power plant data logged, 2/25, p.109
Preamplifier extends graphic range, IE, 6/2, p.149
Precision production gage, micro-comparator, IE, 1/7, p.549
Press load calculator - electronic, 3/10, p.112
Press pressures measured, 4/21, p.104
Production comparator, IE, 3/17, p.130
Production gaging: Maximum accuracy at minimum cost, 5/12, p.88
Pump testers, 4/21, p.94
Pyrometer, pocket-size, IE, 4/28, p.138
Pyrometer with scale ranges measures metal temperatures, 4/7, p.187
Radiation detector, Armour, 5/5, p.152
Radiation detector, Navy, 1/21, p.76
Radiation survey meter for foundry areas, 3/24, p.107
Radioisotopes, industry uses, 6/23, p.50
Recorder for creep machines, IE, 1/28, p.84
Recorder traces shock, 3/10, p.165
Recording counter - chronograph, IE, 3/10, p.199
Servomechanical data, 2/4, p.132
Smoke particles checked, ENG, 4/14, p.91
Spring tester, IE, 5/23, p.135
Straight-line process control, IE, 6/16, p.188
Surface hardness tester, IE, 1/14, p.88
Surface pyrometer, IE, 6/9, p.153
Surface tension meter, Sur-Ten, 5/26, p.108
Surfagage detects scratches, 3/24, p.54
Tachometer (hand), IE, 6/16, p.189
Tachometers, high accuracy, IE, 2/18, p.164
Tachometer, measures speeds, IE, 6/2, p.160
Tachometer, protected from overrange, IE, 6/2, p.160
Temperatures, desk records, IE, 3/3, p.149
Thickness tester, IE, 6/16, p.184
Time temperature control, IE, 5/26, p.135
V/A cell measures bypass flow, IE, 4/14, p.169
X-ray tests (see X-ray)

Insulation:
Butyl insulates transformers, 1/14, p.64
Cement insulates baking vats, 4/7, p.152
Ceramic paper, ENG, 5/12, p.87
Current welder silicone insulated, IE, 6/23, p.133
Electrical equip. tested, 4/7, p.162
Insulator washing equipment, IE, 4/14, p.156
Jet engine tail pipe insulation, ENG, 6/30, p.75
Mica insulation, GE process, 2/25, p.99; 2/18, p.193
Pipe line insulation maintenance, 4/28, p.104
Quartz for asbestos, Navy research, ENG, 4/7, p.113
Skid tube life lengthened by insulation, 2/18, p.101
Tiny covering for wire, ENG, 6/2, p.91
Trolleys insulate conductors, IE, 3/31, p.126
Winding tech., Westinghouse, 5/26, p.124

International Foundry Congress:
Army castings procurement officers, expenses at show, 5/12, p.66

Iron Ore:
Bethlehem mine, Morgantown, 2/18, p.69
Carriers (see Shipbuilding)
Foreign imports rising, 4/14, p.56
Labrador, Quebec supply to mills by 1954, 3/24, p.32
Lake Superior producers, financing problems, 5/26, p.40
Miners' strike, winter steel effect, 6/30, p.45
Ontario deposits, J & L options, 4/21, p.57
Ontario deposits, Oliver options, 6/16, p.69
Steel strike effects: Carriers docked, loss in tonnage, 6/16, p.68
Steep Rock potential, 3/31, p.38
Peruvian source mined, 3/10, p.70
TCI to use Lake Superior ore, 2/4, p.62
Vancouver deposit, 6/2, p.65
See Shipping
See Shipments

Iron Powder:
Book, iron powders, 3/3, p.120
U. S. makers contest Swedish domination, 6/2, p.74

Italy:
Finsider gets 4th MSA grant, 1/28, p.45
Steel production, 4/21, p.63

Inventory:
Lifo: 5/5, p.80
Inventory need (price-tax-raw materials), 1/7, p.123
Measure of business: Inventories shorten, 5/12, p.61

J

Japan:
Machine tools not acceptable to U. S., 3/10, p.78
India instead of Manchuria for steel plant, 6/23, p.53
Steel prices affects German market, 2/18, p.75
Three-man NPA mission scouts machine tools, 2/4, p.52, 2/18, p.75
Trade policy changes, 2/25, p.57

Jasper:
Humboldt Mining formed (Cleveland-Cliffs, Ford), 3/10, p.80, 3/17, p.65

Jets (see Engines)

Jewelry:
Brass grain size controlled, 6/2, p.96

Jigs, Fixtures:
Air-operated collet holding fixture, 4/7, p.196
Cam acting vise, IE, 4/21, p.134
Combustion boats, covers hold material, IE, 2/4, p.176
Comparison chart, 5/26, p.130
Die indicator holder, IE, 2/11, p.142
Drills locked to jig, 4/14, p.132
Holding fixtures simplify fatigue testing, 2/18, p.97
Jigs assembled from kits, 3/17, p.110
Mandrel holds workpieces, IE, 1/28, p.88
Punch and die holder, IE, 6/9, p.146
Super-Spacer eliminates jigs, fixtures, IE, 2/4, p.176
Tool post turrets, IE, 2/11, p.142
Tooling can be cheaper, (jigs and tools), 2/18, p.98
Tooling: Versatility harnessed to a machine, 3/10, p.108
Vise and angle plate, IE, 6/16, p.189
Vise, airlox pneumatic, IE, 4/14, p.169
Vise face plates, IE, 6/16, p.193

Johns Hopkins University:
Missile lab expanded, B, 6/30, p.144

L

Labor:
Aluminum Steelworkers' contracts, 1/14, p.26
Apprentices deferrals soon, 6/30, p.56
Apprentices, small number in critical jobs, 6/16, p.74
Autoworkers-GM contract, anniversary, 2/25, p.50
Brass mills, strikes, 6/30, p.45
Carboloy strike ends, 2/25, p.49
Coal: UMW silent, 3/17, p.47
Electrical workers rivalry, 3/10, p.70
GE lay off, refrig., 4/21, p.44
GE strike possible, 5/12, p.61
General Cable-UEW lock-out, 6/30, p.35
Labor contracts divergence-UAW-USA, 3/3, p.39
Lewis' demands expected, 4/21, p.51
Miners' strike effect, 6/30, p.45
Oil strike effect, 5/12, p.60
Railroad strike likely, 3/17, p.47
Steel, coal crises in March?, 1/21, p.37
Steel strike (see Steel-CIO)
Strikes, outlook next few months, 2/18, p.69
UMW retirement fund use, 3/31, p.52
Union demands (expected after strike settlement), 2/25, p.49
Union members in total civilian labor force, chart, 6/16, p.67
Union membership, 6/9, p.53
Union shop, WSB favors, 2/25, p.39
Unions (3) oppose gov't seizure, 4/14, p.55
Unions set for new issues, 4/21, p.51
See Employment, Unemployment
See Manpower

Lake Carriers' Assn.:
Spencer elected president, B, 4/14, p.193

Lake Superior Iron Ore Assn.:
Iron ore shipments, 4/21, p.57

Latin America:
Steel production—'51, 6/30, p.59

Lead Industries Assn.:
Contributor, YC, 1/7, p.265
Primer formulas, booklet, 2/4, p.110

Lehigh University:
Metal blackening, 6/16, p.157
Vertical testing machine, ENG, 2/18, p.93

Lifo:
Inventory pricing, 5/5, p.80

Lighting:
Bench checks light switches, IE, 3/17, p.129
Cold light "electroluminescence", ENG, 4/21, p.79
Comfort rating systems evaluated, 5/12, p.144
Explosion-proof fixture, IE, 4/28, p.138
Flashlight production up, 3/3, p.48
Fluorescent, inspection use, IE, 1/28, p.90
Fluorescent maintenance, 3/3, p.133
Fluorescent, tripper-start ballast, IE, 5/5, p.174
Fluorescence X-ray analysis at shop level, 3/24, p.70
Fluorescents, more cycles, more light, ENG, 3/17, p.83
GM eye control headlight, 3/10, p.170
Industrial lighting: Outlook bright, 6/30, p.50
Lamps—360 cycles, 2/4, p.136
Lathe, extension cord reel, 5/26, p.132
Luminaire unit, IE, 3/24, p.120
Machine lamp, IE, 5/5, p.172
Mercury lamps, IE, 4/14, p.169
Tiny bulb, aircraft use, 6/30, p.79

Liquefied Petroleum Gas Assn.:
Consolidates NBPA, B, 6/9, p.180

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Lubricants
Antifriction bearing lubricant IE 4/21 p 88
Atom tube for cutting oils IE 5/12 p 162
Cutting compound 3/17 p 116
Cutting compound Metalcut 1/21 p 78
Cutting fluids IE 3/17 p 136
Cutting fluid synthetic IE 6/2 p 152
Dry lubricant data 6/23 p 118
Grease Multifak IE 4/14 p 88
[illegible] solvent lubricant used in titanium machining 1/21 p 25
Lube line [illegible] 1/21 p 65
Lube oil fortified new ENG 6/16 p 95 and 101
Magnetic coolant separator IE 4/21 p 92
Metal wear plate lubricant IE 4/28 p 140
Metallic lubricants 1/24 p 86
Molybdenum disulfide dead center lubricant IE 6/23 p 138
Motor oil refiner IE 6/30 p 138
Paint fluid IE 1/21 p 85
Stik-Wax metals lubricant IE 3/10 p 150
Separators (see Dust Collectors Filters)
Stick wax heads IE 6/16 p 198
Tapping fluid soluble [illegible] 4/? p 121
Turpentine lubricants ENG 4/28 p 80
Tube [illegible] lubricant IE 1/7 p 552
Water-oil separator IE 4/21 p 93
Wire rope lubricator IE 1/7 p 550

Lubrication
Automatic oil cooler IE 4/28 p 140
Black spheroidization of cutting tools solved by radiation from ceiling 4/24 p 122
Chain need for oil 6/16 p 150
Conference Case 3/3 p 105
Die lubricants smooth performance 3/30 p 82
Gravity feed oiling system IE 5/26 p 138
Jet engines lowers cutting tool temperatures 1/21 p 76
Lubricants progress report 4/21 p 114
Manufacturing services YC 1/7 p 406
Paper cutting fluids [illegible] 6/23 p 82
Spectrographic study of lubricants 4/21 p 87

M

Machine Tool Industry
ASTE survey 1/4 p 92
Buick aircraft tools reconditioned 3/17 p 39
Depreciation program better than stockpile 2/18 p 85
Design improvements 1/4 p 40
[illegible] processes [illegible] 2/11 p 51
Foreign tools up 1/14 p 47
Foreign tools renegotiation problems 4/28 p 47
French get orders [illegible] 4/14 p 64
German makers exhibit in Germany 4/24 p 49
Gray [illegible] leased 6/16 p 51
ISO (see Standards)
Italian tools to Soviet 6/16 p [illegible]
Jet engines tool challenge to machine tools 4/28 p 76
Jet engines machining problems licked by special cutter 2/11 p 58
Lathe vibrations pinpointed 6/2 p 60
One setup milling [illegible] clamps cuts machining time on complex components 2/25 p 80
PTAC (see NPA)
Production goals (see Production)
Radioactive tests 6/16 p 86
Record rate predicted 4/28 p 47
Shortage Japan to help 3/10 p 78
Standard machines ease shortage 3/31 p 79
Subcontracting control 3/3 p 42
Surplus (see NPA)
Tool engineer [illegible] pays off in production 3/10 p 107
Tooling can be cheaper 2/18 p 88
Tooling Versatility harnessed to machine 3/10 p 108
Used machines Japan 2/4 p 52
Westinghouse forum 1/7 p 80

Machine Tools & Attachments
Adapter improves gear control IE 4/14 p 150
Automatic countersink IE 3/10 p 204
Air-powered drill IE 2/18 p 159
Air power squaring shear IE 5/12 p 153
Automatic burnishing IE 6/9 p 144
Automatic grinder IE 6/9 p 129
Automatic polishing buffing IE 6/9 p 149
Backspotfacer for cylinders IE 1/7 p 195
Bar and sheet marker IE 6/23 p 131
Bench turret drill (Germany) 6/23 p 98
Bench-type precision surfacer IE 2/18 p 155
Blade finishing line IE 6/2 p 144
Boring mills speed 1/21 p 100 and 104
Broach sharpening IE 5/5 p 105
Broaches tapered spines IE 6/12 p 133
Bolting and chamfering machine IE 4/14 p 159
Cable cutting IE 6/16 p 192
Carbide commutator saw IE 4/28 p 140
Centrifugal machine removes excess coating of zinc 6/9 p 129
Chamfers hypoid pinions IE 4/14 p 159
Chip speed feed mechanics ENG 3/10 p 105
Chuck jaw-set IE 3/24 p 110
Chucking machines 2/11 p 117
Clutch plate grinder IE 4/7 p 150
Collet chuck holds tools IE 2/18 p 162
Collet for gear hobber IE 4/? p 152
Compressor wheels on jet engine [illegible] IE 5/5 p 161
Copy milling machine [illegible] 4/14 p 162
Copying lathe GF IE 6/9 p [illegible]
Cutoff lathes IE 5/5 p 162
Cutoff pipe and tube IE [illegible] p 166
Cutoff saw for [illegible] IE 4/28 p 132
[illegible] stampings IE 2/4 p 162
Cylindrical grinder small parts IE 3/3 p 139
DeVlieg adds to line IE 1/21 p 108
Diamond cutters mark steel IE 1/7 p 196
Divider speeds gear change IE 6/30 p 106
Drawbar pneumatically operated on milling machine 3/24 p 96
Drill bushing for elongating holes in tooling IE 1/28 p 86
Drill stop controls depth IE 1/28 p 143
Drill turret head 6-spindle IE 6/2 p 165
Drilled assembly holes IE [illegible] p 110
Drilling machine mortar shells IE 1/7 p 192
Duplicator contours work 3/31 p 104
Electric eye flame cutter for plate stock 5/26 p 120
Engine lathe used on ship IE 5/5 p 161
Exhaust manifolds worked IE 5/19 p 147
Feed starter straightens rod ends IE 3/10 p 194
Finishes circular parts IE 3/10 p 202
Finishing small parts IE 6/23 p 127
Floating tap holder IE 4/28 p 140
Foundry core grinder IE 3/10 p 195
Gear cutter [illegible] IE 2/11 p 156
German lathes [illegible] 2/18 p 86
Grinder center withstands heat IE 2/25 p 131
Grinder medium size work IE 3/31 p 121
Grinder-miller IE 1/28 p 90
Grinder three-hand IE 6/30 p 111
Guillotine hydraulic cutter IE 5/5 p 161
Hand screw machine IE 5/26 p 136
Helical gear grinder IE 2/11 p 140
Honing machine 3/3 p 121
Honing press IE 4/? p 139
Horizontal boring mill IE 4/21 p 123
Hose coupler IE 1/14 p 75
Hub-type BFR wheel IE 2/18 p 167
Hydraulic drill Army tanks IE 3/17 p 125
Hydraulic punching and stripping equip YC 1/7 p 295
Inclinable power press IE 6/2 p 149
Instrument lathe IE 3/3 p 139
Intake manifold processes engine blocks IE 1/14 p 56
Intake manifolds 50 per hour 6/23 p 124
Internal-external grinder IE 5/12 p 154
Internal grinding spindles IE 5/5 p 163
Jaw chuck for grinder IE 5/26 p 140
Jet blade contour grinder IE 3/31 p 119
Jet blade tip grinder IE 1/14 p 79
Knurler hand operated IE 2/25 p 128
Lathe light cord attach 5/26 p 132
Lathe motor drive 3/10 p 172
Lathe redesign IE 6/23 p 127
Lathe tailstock centering taper turning attach 5/26 p 144
Lathe tool holder IE 1/14 p 81
Lathe turns bores jet parts IE 5/26 p 135
Linear positioner IE 5/19 p 151
Machine grinds finishes polishes IE 1/7 p 487
Machine works cylinder blocks IE 2/18 p 153
Magnetic chucks IE 2/18 p 160
Machine drills brass bars IE 2/11 p 138
Machine processes tank parts 4/28 p 131
Machine reams taps brass disks IE 4/21 p 124
Magnadrill 4/21 p 93
Marking cutoff IE 1/14 p 80
Mechanical die feeds [illegible] production less effort 3/17 p 58
Metal cutting DeWalt IE 5/12 p 155
Metalmaster disintegrator 1/14 p 60
Mill cutter chip brush remover IE 4/7 p 165
Metal forming machines IE 5/19 p 147
Mills shank high speed IE 5/19 p 158
Multi-angle drill IE 2/25 p 124
Multiple nut runners IE 2/25 p 123
Multiposition locating device IE 1/28 p 89
Optical dividing head for measurements IE 1/7 p 549
Pedestal grinder IE 3/17 p 130
Planer open-throat 3/10 p 152
Planer mill Allis-Chalmers 3/31 p 106
Portable bar centering tool speeds handling 1/14 p 64
Power feed cutting steel plates IE 2/4 p 141
Power strap dispenser IE 6/30 p 110
Precision disk grinder IE 5/26 p 140
Precision driller IE 6/30 p 104
Precision milling machine IE 3/24 p 108
Precision profiler IE 5/12 p 154
Precision tools for chucking IE 1/21 p 99
Processing suspension supports Army tanks IE 3/17 p 125
Profile follower pin 5/12 p 63
Profile grinder IE 5/12 p 153
Radial driller IE 6/30 p 103
Reamer portable 3-speed IE 1/28 p 84
Rotary straightener 3/3 p 133
Rotary straightener aids jewelers instrument-makers ENG 1/14 p 53
Sander IE 1/21 p 94
Sawing machine stock feeder attach IE 6/2 p 149
Screw machine automatic IE 6/9 p 143
Screw thread roller IE 5/5 p 168
Shaper uses magnetic clutch IE 4/21 p 123
Shells marked IE 4/14 p 150
Slitting machine aids warehouse 4/28 p 45
Slitting saw 6/9 p 125
Slitting strip steel burred chamfer IE 2/4 p 161
Speed mill hydraulic IE 3/3 p 142
Speedi-Balancer aids lathe operation IE 2/18 p 162
Spindle assembly redesign IE 6/9 p 144
Stitcher-felt lining to tank strap 2/25 p 112
Straightening press Alcoa ENG 3/3 p 75
Straightening press Bliss 3/24 p 107
Straightening press sensitive work IE 3/17 p 126
Super-Spacer eliminates jigs fixtures IE 2/4 p 176
Surface broaching IE 4/28 p 131
Surface finishing IE 1/28 p 83
Surface grinder IE 6/23 p 133
T-lathe late development YC 1/7 p 372
Taconite piercing 6/30 p 89
Tangent bender IE YC 1/7 p 549
Tank parts speeded by new tool 6/9 p 98
Tapping head IE 1/7 p 552
Thread grinding IE 5/5 p 161
Tool dresser (Tangi-Matic) radius attach IE 3/17 p 134
Tool grinder redesign IE 3/10 p 200
Tool holder eight-position 3/3 p 146
Tool room lathe 11-in swing IE 1/7 p 191
Tool works oil pump bodies IE 1/14 p 82
Tool works exhaust manifolds IE 5/19 p 147
Tough metals marked IE 3/10 p 196
Transfer-matic bores-faces IE 3/17 p 125
Transfer machine handles differential pinion shaft IE 3/31 p 119
Trunnion machine works valve rocker arms IE 1/21 p 85
Tube bender IE 6/23 p 128
Tube bender combination IE 1/28 p 84
Tube filler closer IE 1/28 p 88
Tube straightener IE 1/21 p 86
Tube straightener geared roll IE 2/18 p 156
Tube straightener IE 4/14 p 135
Tube straightener (seamless) meets spec 4/28 p 92
Turret lathe attach IE 6/9 p 145
Twist drill line IE 4/21 p 130
Undercutting milling machine IE 1/28 p 84
Universal nipple chuck IE 6/30 p 115
Vertical boring IE 6/16 p 181
Vertical boring small-size jig IE 6/16 p 181
Vertical boring mill 42-ft 1/14 p 75
Vertical boring-turning mill for big machining jobs 1/14 p 75
Vertical honing line IE 6/23 p 130
View screen built into millers IE 3/31 p 122
Watchmaker's lathe produces aircraft parts 6/9 p 103
Weight-balancing milling machine IE 4/23 p 123
Wheel dresser emory IE 4/7 p 203
Wheel dresser fluidmotion IE 3/24 p 118
Wheel forming attach IE 5/19 p 154
Wheel truing attach IE 6/23 p 127
Wire and cable take-up unit IE 3/17 p 126
Wire straightener IE 5/19 p 147
Wire rope cutter IE 5/12 p 166
See Production
See Shipments

Machinery:
Buick machinery changes revitalize sheet metal plant 2/25 p 78
Farm machinery (see Farms)
Road building equipment in demand 4/28 p 49
Special machinery makers report 2/11 p 57
Standard machines ease shortage 3/31 p 79
Surplus World War II retooled 2/25 p 96
See Maintenance

Machinery & Allied Products Institute:
Conference defense controls 3/3 p 113

Code: B *Briefs*, ENG *Engineering and Production News*, IE *Industrial Equipment*, YC *Yearbook Comment*

Machines:
Abrasives for wet blaster, IE, 1/14, p.87
Airless blast cabinets, 1/21, p.62
Airless blast cabinets prepare enamel base, 3/3, p.102
Balancing machine, IE, 4/28, p.132
Bearing torque tester, 6/23, p.118
Check bench tests brake light switches, IE, 3/17, p.129
Chilling machine Deepfreeze, IE, 3/10, p.194
Chrome plater bench-type, IE, 4/28, p.138
Chromaster plating line, IE, 4/21, p.123
Coating machine, IE, 4/7, p.195
Compressor tests small parts, IE, 2/11, p.136
Conveyor belt tester, 3/24, p.94
Core blower, 6/23, p.120
Copyflex, IE, 6/23, p.127
Creep rupture tester, 5/26, p.87
Creep tester stressed material, 4/14, p.138
Crusher for coal sample preparation, IE, 2/18, p.151
Die casting line, 4/7, p.187
Fatigue tester redesign, IE, 4/14, p.149
Foundation borer, 6/23, p.98
Foundry flasks cleaner, IE, 6/9, p.144
Frigistat bath test unit, IE, 2/4, p.161
Humidity testing cabinet, IE, 6/2, p.159
Instrument parts cleaned, IE, 5/5, p.172
Insulator washer, 4/14, p.156
Low magnification strain units, IE, 2/11, p.142
Machine gages 24 dimensions, IE, 6/9, p.145
Machine impregnates castings, IE, 1/7, p.549
Measures smoothness of polished steel sphere, ENG, 2/4, p.87
Mercury-cathode analyzer, IE, 5/12, p.156
Mineral spirits washer, IE, 3/17, p.134
Motor test stand-dual head, IE, 3/24, p.113
Navy lists "hardest to get," 2/4, p.59
Packages, counts small parts, IE, 5/26, p.138
Packaging machines, IE, 2/4, p.166
Power brushing speeds gear deburring, IE, 6/23, p.136
Power sweeper, IE, 5/12, p.156
Purifier, air, gas lines, IE, 1/28, p.85
Purifiers, pipeline, IE, 3/24, p.123
Rail tester, pic, 6/2, p.74
Sandblast line, enameling mfg, 3/3, p.113
Sand tester, IE, 6/2, p.154
Scarifier cleans trucking aisles, 2/4, p.161
Separator grades chips, IE, 5/12, p.162
Slab mold, water-cooled machine, 2/11, p.122
Sonntag testing machines, 2/18, p.97
Spray-type processing, IE, 5/26, p.139
Spring tester, IE, 4/14, p.153
Spring tester on weighing table, IE, 4/7, p.187
Steam cleaners, IE, 5/19, p.147
Subzero chest tester, IE, 1/14, p.84
Surface temperature measured, IE, 6/9, p.150
Universal tester, IE, 1/21, p.94
Vertical tester, ENG, 2/18, p.93
Vibration tester, electronic, IE, 6/2, p.156
Web blaster cleans jet units, IE, 5/12, p.153

Machining:
Adding machine parts handled faster by compressed air, 6/30, p.80
Armco manual, stainless machining, 3/3, p.126
Buick vaporization of cutting oils solved by radiator from ceiling, 6/23, p.122
Carbide trepanning — accurate bores in record time, 3/31, p.71
Coated abrasives ease jet blade finishing, 6/9, p.90
Cold heading: Small parts, 4/21, p.88
Cores for automotive castings produced 600 per cent faster, 2/11, p.92
Disintegration (metals) becomes production necessity, 1/14, p.60
Electrolytic grinding — stubborn alloys less formidable, 3/17, p.84
Heat treating boron steels machinability can be improved, 5/12, p.94
Intake manifolds: 50 per hour, 6/23, p.124
Jet engine machining problems licked by special lathes, 2/11, p.86
Magnesium fabrication — lower finished costs, 5/5, p.98
Mechanical die feeds — more production, less effort, 3/17, p.86
Nodular cast iron welds hard to machine, 6/23, p.78
One setup milling — slices machining time on complex weldments (Harnischfeger), 2/25, p.81
Palletized machining speeds flow of tank transmissions, 3/10, p.115
Portable bar centering tool speeds handling, 1/14, p.64
Precision spinning — solves forming problem (Riverside Metal), 3/24, p.68
Processing methods, YC, 1/7, p.287
Production gaging: Maximum accuracy at minimum cost, 5/12, p.88
Production reaming: Fine finishes faster, 6/16, p.96
Proper cutting fluids can step up machining, 6/23, p.72
Shaping finishing horizons widen, 4/7, p.120
Stampings formed faster, 2/4, p.90
Tool engineer — his imagination pays off in production, 3/10, p.106
Tooling: Versatility harnessed to machine, 3/10, p.108
Vertical boring-turning mill for big machining jobs, 1/14, p.75

Magnesia Insulation Manufacturers Assn.:
Insulation maintenance tips cut heat loss, 4/28, p.104

Magnesium:
Book magnesium for industry, 5/26, p.108
Bureau of Mine tests, 4/14, p.111
Production goal '53, 2/4, p.71
Magnesium fabrication — lower finished costs, 5/5, p.98
Magnesium foundries (see Navy)
Weldable magnesium, ENG, 3/3, p.75

Magnets:
Coolant pump magnet, IE, 6/16, p.199
Magnetic drum pulls iron from sand, 3/10, p.170

Maintenance:
Alloy meets machinery maintenance needs, 4/7, p.179
Battery check-chart, 4/28, p.124
Conveyor belt care, 3/3, p.115
Electrical equip. knockouts cut installation time, IE, 3/31, p.127
Felt pads reduce machinery installation, 1/21, p.75
Fluorescents care, 3/3, p.133
Furnace care, booklet, 1/28, p.66
Hot water heater bulletin, 4/28, p.118
Industrial vacuum cleaner, IE, 2/11, p.138
Insulation maintenance, Magnesia Assn report, 4/28, p.104
Machine core, Glenn Martin plant, 3/3, p.79
Neoprene sheet lining, 3/3, p.97
Planned maintenance, 5/5, p.106
Plant maintenance, digest, 4/7, p.168
Preventive maintenance booklet, 4/21, p.110
Power tool care book, 3/3, p.122
Railroad spectrographic analysis, 5/26, p.87
Welding equip. book, 3/10, p.148
Window washing elevator, pic, 4/21, p.53

Malleable Founders' Society:
Auto cuts, Chambers warns, 2/4, p.60
Contributor, YC, 1/7, p.302
Medal to R. N. Code, B, 6/30, p.139
Meeting, Chamber addresses, 6/23, p.53

Management:
Auto packaging-materials handling focus, 4/14, p.77
Labor demands share in leadership, Armco head tells AISE, 5/5, p.71
Labor impairs management's freedom, 4/7, p.77
Management problems (reviewed), 1/7, p.122
Manpower shortage, training cited, 5/19, p.127
Planned research profitable business insurance, 4/21, p.85
Steel management free to manage?, 4/14, p.65

Manganese:
Allegheny - Ludlum - substitutes, 3/24, p.32
Cheese aging speeded with trace of manganese, ENG, 2/25, p.75
Firm to extract, 2/11, p.65

Manpower:
Apprentices (see Labor)
Detroit (see Employment)
Forge operator-shortage, YC, 1/7, p.292
Labor problem (how to get, keep, train), 1/7, p.122
Labor shortages ease, 1/28, p.38
Management training cited, 5/19, p.127
Productivity report, 2/25, p.39
Puerto Rico labor pool, 4/14, p.56
Surplus labor market areas picked, 2/25, p.52
Technically trained shortage, YC, 1/7, p.268
Tool and die makers wanted, 1/14, p.36

Manufacturers Agents:
Use of agents increased, 3/21, p.50

Manufacturers' Agents National Assn.:
Tax law in New York attacked, 3/21, p.50

Manufacturing Chemists Assn. Inc.:
Air pollution books, 3/17, p.116
Air pollution conference, 3/10, p.165
Air pollution reviewed, 3/10, p.177
Safety in acid handling, 5/5, p.151
Unloading flammables, bulletin, 6/2, p.98

Marking, Stamping:
Aircraft stamping, one-piece fabricating at Ryan, 4/21, p.96
Auto stampings, SAE papers, 2/25, p.62
Embossing line, 5/26, p.129
Branding irons, IE, 4/7, p.198
Heat-treated rolls engraved automatically, 3/24, p.89
Jobbing stampers outlook, 4/7, p.95
Mechanical die feeds — more production, less effort, 3/17, p.86
Metal-Cal identification, IE, 5/12, p.166
Name plate stamper, IE, 2/18, p.164
New developments, YC, 1/7, p.290
Stampings formed faster (Leake roof panels, tractor parts), 2/4, p.91
See Machines
See Tape

Massachusetts Institute of Technology:
Contributor, YC, John Chipman, 1/7, p.268
Electronics courses, 4/28, p.123
Instrument training courses, 4/7, p.161
Lab dedication, B, 4/28, p.171
Spectroscopy study scheduled, 4/7, p.154

Materials & Components:
IMC reports on 1st yr., 5/26, p.57

Materials Handling:
Air Force packaging standards mean savings, ENG, 2/11, p.81
American Brass, mechanized handling pays off, 2/25, p.99
American Cyanamid storage system, 2/25, p.113
Automotive conference, 4/14, p.77
Baskets vitalize small parts handling, 4/21, p.83
Cadillac-Cleveland tanks, engineered materials handling, 4/14, p.92
Cars used for continuous heat treating, 3/31, p.106
Custom-tailored carts move parts efficiently (Ryan), 3/24, p.78
Earthmoving equipment shipments '51, 5/26, p.50
Ford-Cleveland automation plant, 4/7, p.99
Ford-Cleveland, chips removal, 4/14, p.104
Giant tongs expedite turret handling (Army tanks), 6/23, p.80
Lincoln assembly, new plant ideas, 2/4, p.92
Manufacturing services, YC, 1/7, p.427
Metal framing racks up handling savings, 6/9, p.104
Overhead conveying frees floor space, 6/30, p.81
Wheels: A $22 million industry, 3/10, p.88

Materials Handling Equipment: Conveyors:
Belt clears slugs and waste, IE, 1/21, p.85
Belt loading studied, 3/3, p.115
Belt trainer, positive-action, IE, 5/5, p.177
Belting, acid resistant, IE, 3/31, p.131
Bulk materials carried hot, problems studied, 3/3, p.129
Chain for conveyors, IE, 2/18, p.162
Chips removal, Ford-Cleveland, 4/14, p.105
Coal carload unloader, 6/16, p.160
Conveyor rated at 1000 lbs, IE, 3/3, p.144
Gravity conveyors, IE, 4/7, p.195, 6/30, p.106
Hotstuff conveyor belt, IE, 3/24, p.120
Iron mines, rubber belt, 2/4, p.138
Lagging for conveyor pulleys, IE, 6/30, p.115
Live roller, IE, 5/5, p.161
Monorail cable system, 5/5, p.140
NesTier handling, IE, 1/14, p.80
Oil buff conveyor belting, IE, 5/12, p.164
Power unit lifts assemblies, 6/16, p.164
Sectional belt conveyor, IE, 3/17, p.136
Stacker and power booster, IE, 1/21, p.86
Stainless speeds rubber flow, 2/4, p.123

Cranes, Hoists:
Balky load crane handler, IE, 1/28, p.81
Coal mine hoist and loader, 5/12, p.138
Crawler crane, IE, 4/23, p.127
Excavator and truck crane, 6/9, p.125
Hydraulic portable crane, IE, 2/4, p.170
Lorain crane, pic, 2/4, p.126
Low lift truck-crane, IE, 3/3, p.146
Mine hoist motor drive, 6/23, p.106
Mobile crane trucks, IE, 4/14, p.149
Portelvators for complex handling, IE, 3/10, p.193
Vertical lift, IE, 5/5, p.164
Yard shovel, pic, 2/4, p.137

Miscellaneous Equipment:
Hooded bin for small parts, IE, 4/28, p.138
Jack for heavy rigging jobs, IE, 5/19, p.156
Knock-down stacking box, IE, 3/31, p.127
Loading platform, portable, IE, 3/3, p.149
Metal loader cart, IE, 6/16, p.184
Pallet rack, IE, 5/26, p.144
Pallet rack adapted to die storage, IE, 2/4, p.162
Pallet, skid racks, IE, 5/19, p.160
Panel mounting rack, IE, 4/14, p.166
Rack handles small parts, IE, 6/9, p.144
Ramp for truck loading, IE, 3/31, p.121
[illegible] gear controls indexing, IE, 2/18, p.160
Scrap dumping cart, IE, 2/25, p.128
Tote box handles hot forgings, IE, 2/18, p.153

Code: B, *Briefs*; ENG, *Engineering and Production News*; IE, *Industrial Equipment*; YC, *Yearbook Comment*

Unloader, portable, IE, 6/23, p.138
Welder's cart, IE, 4/28, p.131

Trucks, attachments for:
Carton handling, IE, 6/23, p.136
Coiled wire handling, IE, 2/18, p.156
Drum handling, IE, 6/23, p.127
Drum barrel handling, IE, 6/23, p.138
Drum up-ender, IE, 4/14, p.79
Drum up-ender, IE, 5/19, p.154
Dump trailer, IE, 1/7, p.550
Dump truck, White model for Air Force, 5/5, p.133
Loading dock attach., 4/28, p.122
Overhead guard, IE, 6/16, p.188
Platform truck with end-dump hopper, IE, 5/12, p.159
Snow plow attachment, 6/23, p.106
Swivel steel truck casters, IE, 3/17, p.136
Telescoping fork extension, IE, 3/3, p.142
Tractor lift, IE, 3/24, p.114
Tractor lift, IE, 4/14, p.149
Tractor shovel, IE, 2/25, p.126
Truck loader, IE, 4/7, p.191

Trucks, Gas & Electric:
Big Joe Mfg. adds, IE, 3/10, p.200
Buda fork lift series, IE, 1/7, p.549
Instrument panel redesign, IE, 3/17, p.125
Knickerbocker tractors, IE, 3/31, p.122
Lift truck, battery-powered, IE, 6/30, p.106
Trail tramrail Forker, 6/9, p.100
Trackmobile unit positions coal cars, 5/12, p.138
Tractor slag remover, 4/14, p.100
Tractor tows 70-ton load, 4/7, p.188
Tractor warehouse use, IE, 1/28, p.85
Trailer handles long parts, IE, 4/28, p.137
Trailer, heavy-duty, IE, 5/26, p.142
Transtacker, pic., 6/23, p.89
Truck has built-in generator, IE, 2/11, p.135

Trucks, (Hand):
High-lift platform truck, IE, 5/19, p.148
Hydraulic lift, IE, 5/19, p.151
Lift handles skids and pallets, IE, 1/21, p.92
Rack trucks reduce rehandling, 2/4, p.129

Material Handling Institute:
Conference plans, B, 3/31, p.157
Expo. scheduled, 1953, 4/7, p.87
Symposium, better methods discussed, 6/9, p.100

Mechanite Research Institute Inc.:
Contributor, YC, 1/7, p.292

Metal Powder Assn.:
Meeting scheduled, 2/25, p.96
Meeting, Chicago, 4/28, p.56
Meeting report, 5/5, p.73

Metallurgy:
Accurate control of grain size used in jewelry, watches, etc., 6/2, p.96
ASM molecular reports, ENG, 2/11, p.81
Boron steels supplement, scarce metals, 1/14, p.96
Metallurgists meet in Tyrol, 6/16, p.166
Metallurgists under pressure for new materials, 6/30, p.48
Phenomenon of phase change, book, 2/18, p.133
YC contributors, 1/7, p.222, 246, 252

Metal Lathe Manufacturers Assn.:
Studless lath saves steel: tests, 6/16, p.163

Metals:
Alloying metals scarce, copper in steel test, 4/28, p.96
Army conservation substantial, 1/28, p.40
Bismuth measured, spectrophotometric method, 4/7, p.138
Clad metals (see Cladding)
Disintegration process, 1/14, p.60
Hardenable pewter, ENG, 2/4, p.87
Hardware use, 1/28, p.38
Metals demand 1975, MPC report, 6/30, p.46
Metals per person in '51, 4/21, p.54
Minor metals major issue (world suppliers), 4/21, p.80
Nonferrous (see Castings)
Pure metals from ore concentrates, 5/26, p.76
Research, Key to metal's future, 5/5, p.143
Scarcity, YC, 1/7, p.242
Shortage, boron supplements, 1/14, p.96
Shortage, DPA surveys outlook, 1/14, p.27
Substitutes for critical metals, alloys, Navy research, 2/25, p.84
Western metal expansion plans, 3/17, p.59
See Books
See Machining

Metalworking:
Capacity, capital expenditures, '52, 3/24, p.41
Chart (Earnings-Sales), 2/11, p.57
Companies formed, chances of survival, 1/28, p.39
Disintegration becomes production necessity, 1/14, p.60
Electronic hammer forces metal to change, 2/18, p.100
Facts and figures, '52, 1/7, p.187
Felt for finishing meltalworking applications expand, 2/4, p.88
Hydrogen causes embrittlement of forged compressor blades, 3/24, p.76
Lagooning purifies wastes, 4/14, p.98
Lubricant use reduces friction in plastic working of metals, 1/7, p.237
Metalworking's destiny, 1/7, p.115
Rare metals require precision furnacing, 3/3, p.76

Mexico:
Steel mill approved, 4/28, p.55
World Bank loan, 1/21, p.43

Mica:
Shortage, new sources sought by GSA, 6/16, p.70

Midwest Research Institute:
Flow loss pipeline analyzer, 5/26, p.84

Mining:
Jasper deposits, Humbolt mine, 3/10, p.80
Jasper taconite projects, 3/17, p.66
International Nickel methods improved, ENG, 5/5, p.97
Jet-pierce mining booklet, 1/4, p.56
Western companies expand, 3/17, p.59
See Iron Ore

Moisture:
Aircraft moisture-proof-packaging, 3/10, p.151
Army moisture meter prevents rust, 4/14, p.70
Auto moisture seal, 6/30, p.96
Meters gage moisture, 4/14, p.127

Motion Pictures:
Bell & Howell projector, sound on a stripe, ENG, 2/25, p.75
Clark Equipment, 5/5, p.124
Federal, Gaging for profit, 6/30, p.86
Ford, Tomorrow meets today, 6/23, p.58
GE FHM film, 6/23, p.77
GE visual aid to mechanization, 6/30, p.96
Skinner Chuck, 4/28, p.95
U. S. Electrical Motors, 5/26, p.107

Motors, Generators:
Acetylene filling compressor, IE, 3/31, p.125
Automatic motor control, IE, 1/21, p.86
Ballomatic backstop prevents motor reversal, IE, 3/3, p.15
Cylinder has no-sag rod, 3/3, p.124
Enclosed dual-cooled motor, 6/9, p.132
Explosion-proof motor, IE, 2/25, p.124
FHP motors, demand off, 4/21, p.58
FHP motors, GE, 3/31, p.85, 3/10, p.168
Farm demand, electric generators, 2/18, p.72
Generator frequency changers, IE, 4/14, p.165
Generator-GE, Finland, pic., 2/25, p.57
Generator, pic., Fairless Wks., 5/19, p.108
Motor condenser remounted, IE, 1/28, p.88
Motor control center, IE, 1/14, p.82
Motors-125 hp., IE, 1/21, p.88
Navy generator, more kw, ENG, 3/24, p.67
Oxygen generator, IE, 4/7, p.188
Reliance Electric, new motors answer to rising wage costs, 5/26, p.50
Reliance floating worm gear motor, ENG, 5/26, p.75
Steam generator, automatic, IE, 1/28, p.88
Switch shorting prevented by gaskets, 3/24, p.89
Truck has built-in generator, IE, 2/11, p.135
Wafer motors, short overall length, IE, 6/2, p.162
See Fans & Blowers
See Power Transmission

Mutual Security Agency:
See Europe
See Government

N

National Advisory Committee for Aeronautics:
Giant cooler solves exhaust gas problem, pic., 4/7, p.229

National Association of Credit Men:
Book, credit laws, 2/4, p.150

National Association of Corrosion Engineers:
Chemical symposium, 4/7, p.173

National Association of Manufacturers:
Monthly magazine, 1/21, p.37

National Association of Purchasing Agents:
Meeting report, 6/2, p.63

National Association of Sheet Metal Distributors:
Meeting, 5/19, p.72

National Barrel & Drum Assn., Inc.:
Used drum business down, 5/12, p.62

National Bureau of Standards:
Aluminum electrodeposited at room temperature (plating bath dev.), 6/9, p.94
Bismuth measured, spectrophotometric method, 4/7, p.138
Building corrosion report, 5/5, p.148
Copper creep studies, 3/3, p.94
Copper in steel test, 4/28, p.96
Ductile iron data expands, 4/21, p.104
Length standards, spectroscopic lamps, 6/16, p.179
Open house, metallurgy, 4/28, p.52
Porcelain enamel adherence study, 5/12, p.118
Steel embrittlement at low temperature, 6/9, p.103
Steel brittleness studied, 3/10, p.146
Weight-measure laws, 5/5, p.133
Weights and measures indexed, 6/2, p.126
YC, Contributor, 1/7, p.254

National Butane-Propane Assn.:
Consolidates into LPGA, 6/9, p.180

National Machine Tool Builders' Assn.:
Contributor, YC, 1/7, p.321
Machine tools shipped '51, 1/14, p.36
Subcontracting views, 5/5, p.72

National Production Adm.:
Aluminum violators hit, 4/21, p.53
Auto wreckers ask decision, 6/16, p.73
Book, diamond salvage, 4/28, p.102
Building projects (105) awarded hardship areas, 3/17, p.56
Business Advisory Service, 5/5, p.76
Castings studied, 6/30, p.50
Darby heads iron & steel, 3/31, p.51; retires, 6/30, p.36
Electrical standards, JIC objects, 5/19, p.71
Fowler to succeed Fleischmann, 5/19, p.71
Howe, appointed, 4/14, p.69
Industry men needed, NPA warns, 4/28, p.52
Locomotive report, 1/21, p.45
Machine Tools:
  Defense contracts ($1 billion), 3/3, p.39
  Fisher Body-Bullard contract suspended, 2/4, p.59
  PECIG, machine tool div., 5/26, p.54
  Priority urged, 3/24, p.46
  Priority, numerical preference, 4/28, p.47
  PPAC formed, 5/12, p.63
  Surplus tools, (recovery program) pushed, 2/11, p.64
  Surplus tools, educational institutions release, 3/10, p.174
  Surplus tools (Ga.), Air Force, 4/7, p.89
  Tool inventory, group named, 6/9, p.66
  Tool stockpile or depreciation reform?, 2/18, p.65
  Tool order amended soon, 6/23, p.44
McCafferty succeeds Darby, 6/30, p.36
Mining machinery makers asked for monthly shipping statements, 6/9, p.64
Production levels cited, 5/26, p.59
Reg. W. removal results slow, 5/26, p.51
Reg. 6 relaxations cancelled, 6/16, p.60
Regulations mailing service discontinued, 4/21, p.60
Regulations-Renegotiation, where issued, 5/26, p.54
Scarce metals listing rev., 6/16, p.73
Steel strapping M-59 asked revoked by group, 3/17, p.56
See Controlled Materials Plan

National Safety Council:
Accidents—'51, 6/30, p.96

National Science Foundation:
Board members named, 6/9, p.125

National Sprayer & Duster Assn.:
Agricultural sprayers, dusters demand, 4/7, p.158

National Tool & Die Manufacturers' Assn.:
Special tools backlog, survey, 4/28, p.48
Tool and die makers wanted, 1/14, p.36

Navy:
Ford jet plant-Romulus, 2/11, p.58
Hastings ammun. depot, 2/4, p.52
Magnesium foundry at Teterboro transfer, 4/14, p.56; bill passes Senate, 4/21, p.44
Magnesium foundry transfer, Bendix Aviation, 6/9, p.65
Plastic patch for pipes, ENG, 5/26, p.75
Savage attack bomber now reconnaissance plane, B, 3/10, p.235
Shock testing, 2/18, p.126
Super Constellation transport, pic., 6/16, p.71
See Procurement
See Research

Netherlands:
Slabbing and blooming mill, ECA-MSA, 5/12, p.69

New York Naval Shipyard:
Contributor, YC, 1/7, p.452

New York University:
Tool study announced, 3/3, p.112

Code: B—Briefs, ENG—*Engineering and Production News*, IE—*Industrial Equipment*; YC—*Yearbook Comment*

Nickel:
NPA allotment. Cuban plant activated, 5/19, p.67
Nickel: Where our allocation of free world supply goes (chart), 6/23, p.55
Suppliers (world), 4/21, p.80

Nodular Iron:
ASTM rev. standards, 2/25, p.117
Nodular cast iron welds hard to machine, 6/23, p.78

Noise:
Construction conference, 5/12, p. 93
Diesel, reduced by cylinder head covers, ENG, 5/12, p.87
Toned-down noise, 2/25, p.76
See Sound

Nylon:
Use for bearing cages (box), 6/2, p.143
Used for cams, 4/7, p.173

O

Office of Price Stabilization:
Arnall appointed, 2/18, p.65
Arnall adamant on $3 hike-steel, 6/30, p.44
Capehart for steel: Few try it, 5/12, p.61
Die casters price increase, 5/12, p.70
DiSalle resigning, 1/28, p.42
Forgers to get pricing order, 6/16, p.79
Loss items, 4/28, p.50
Treble damage cases, 3/17, p.48

Ohio State University:
Honors E. G. Bailey, B, 6/30, p.144

Oil:
Canadian oil for U. S., B, 3/31, p.155
New wells beginning July, 4/7, p.78
Oil-gas industry expansion, 1/14, p.36
Palm oil replaced by processed fats, 4/7, p.92
Strike effect, 6/30, p.35; 5/12 p.60

Open Hearths:
Bundled scrap, 1/28, p.72
Instrumentation at Bethlehem Pacific, 6/30, p.90
Instrumentation of furnaces, 2/18, p.136
Suspended basic ends, use increased, 1/7, p.224

Ores:
See Chrome ore, Iron Ore, Magnesium Ore

Oxygen:
Oxygen generator, IE, 4/7, p.188
Pipeline, Houston, 5/12, p.113

P

Packaging, Containers:
Acids in carboy, ENG, 4/14, p.91
Aircraft moisture-proof film, 3/10, p.151
Air Force standards, 2/11, p.81
AMA publications, 1/21, p.76
Army moisture meters prevent rust, 4/14, p.70
Army Ordnance packaging criticized, 2/25, p.61
Automatic packaging, IE, 2/4, p.166
Automotive conference, 4/14, p.77
Card system for packing, Cadillac tank plant, 4/7, p.164
Container-deposit not required, 5/26, p.40
Demonstration, military packaging, 5/26, p.126
Engine lathe packed for shipping, 6/23, p.112
Military box spec, 4/28, p.109
Rolling mill units, ENG, 3/10, p.105
Supply-demand in balance, 1/14, p.29
Tractors protected by hoods, 3/17, p.112
See Machines

Pakistan:
IBRD loan, 4/21, p.63

Patents:
Belgium firms get rights, 3/10, p.87
Check valve rights purchased, 6/9, p.134
Free gov't patents listed, 4/7, p.173
New Process D-Enameling licenses foreign firms, 4/7, p.173
Royalty free, AEC, 3/3, p.107

Pelletizing:
Allis-Chalmers test plant, 4/7, p.86
Taconite processing new, 3/3, p.48

Pensions, Insurance:
WSB rules on retirements, 3/3, p.49

Petroleum:
Priorities, private oil and gas expansions, 4/21, p.59

Petroleum Educational Institute:
Petroleum dictionary, 6/16, p.141

Phosphating:
Accelerated phosphate prepainting treatment, 5/12, p.92
Metallic coatings substitute, 1/28, p.64
Powder, steel-iron phosphatizer, IE, 1/28, p.93

Photographic Society of America:
Meeting scheduled, 5/12, p.127

Photography:
Bore hole, 360-degree photos, ENG, 3/3, p.75
Camera-bore detects flaws in bedrock, 2/18, p.71
Camera details engine performance, ENG, 6/9, p.89
Portagraph, copies records, 4/7, p.164
X-ray powder diffraction cameras, IE, 6/16, p.190

Pickling:
Sulphuric acid pickling for removal of heat treating scale, 1/7, p.237

Pipe Lines:
Expansions—'52, 1/14, p.37
Gas (natural) pipeline, Calif., 5/12, p.71
Natural gas facilities expand, 2/25, p.58
Nickel-copper piped, Copper Cliff, ENG, 3/31, p.73 and 2/4, p.148
Oil pipeline projects, 5/12, p.71
Oxygen piped, Houston, 5/12, p. 113
Pipeline over Mississippi, pic., 2/18, p.69

Pipe, Tubing, Fittings:
Aluminum coiled tube, IE, 1/14, p.91
Aluminum tubing to replace drawn seamless (Mirrors), 2/18, p.72
Cathodic system shields piping, 2/4, p.144
Ford tube production, 4/14, p.78
Hose couplings, Quick-Seal, IE, 3/10, p.209
Constant support type hanger, IE, 4/7, p.196
Fitting makes fast couples, 6/30, p.89
Joint, rotary pressure, IE, 6/30, p.112
Packing glands, IE, 1/14, p.86
Plastic (see)
Rubber lining, 6/23, p.89
Seamless tubing analyzed, 4/14, p.135
Seamless tubing companies expand, 2/4, p.63
Skid tubes insulated, 2/18, p.101
Stainless fitting joins pipe or tube, 6/16, p.168
Stainless tubing hot extruded, French process, 1/21, p.79
Tube cleaner, IE, 4/21, p.134
Tube purge meter, IE, 2/11, p. 147
Tube straighteners (see Machines)
Tubes Vinyl plastic caps for shipping, 5/12, p.139
Tubing resized, ENG, 4/28, p.73
Tubing welded of nonferrous, ENG, 4/14, p.91
Welding pipe, tubes, pics, 2/18, p.107

Plant Operation:
Lincoln plant ideas, 2/4, p.92
Machinery changes revitalize sheet metal plant, 2/25, p.78
Plant layout planning file, ENG, 4/21, p.79
Overhead conveying frees floor space, 6/30, p.81
Steel plants may make variety of products at each mill: Freight rates the reason, 6/23, p.36
Triple-duty operations, GM, 1/7, p.157
Steel struck mills to open, 6/23, p.43
Vacation shutdowns (chart), 6/16, p.70
Vacation shutdowns, 6/23, p.43
See Materials Handling

Plastics:
Automotive use, 6/30, p.61
Cab windows cover, 5/19, p.136
Cartridge case liner, 2/11, p.125
Crown Co. transom, pic., 3/31, p.49
Foundry shell mold resins reported, 5/12, p.134
Industry report, tech. session, 4/28, p.92
Molds, metal sprayed, 5/26, p.116
Navy, plastic patch for pipes, ENG, 5/26, p.75
Navy, plastic pipe for minesweepers, ENG, 3/1, p.105
Tubes capped for shipping, 5/12, p.139
Tubes for oil fields, 1/21, p.45
Vacuum metalization, ENG, 3/31, p.73

Plumbing Goods:
Sales down, 6/23, p.47

Pollution:
Air pollution (see Manufacturing Chemists Assn.)
Dust from air: electrostatic filtration, 5/5, p.105
Lagooning purifies metalworking wastes, 4/14, p.99
Ventilator clears air, IE, 2/4, p.165
Water pollution problem, 1/21, p.45

Porcelain Enamel:
Possibilities in porcelain enamel, 4/7, p.116
See Finishes, Coatings, Paints

Porcelain Enamel Institute:
Book, New uses, 5/12, p.130
Data service, 4/7, p.167
Membership sought, B, 6/9, p.182
New uses group formed, B, 3/24, p.151
Possibilities in coatings, porcelain enamel, 4/7, p.116
Reflectance test book, 5/19, p. 134

Powder Metallurgy:
Oxyacetylene powder cutting, 6/16, p.140
Brochure on porous self-lubricating bearings and powder metallurgy, 3/31, p.108
Explosion hazards reduced, 3/3, p.128
Hot pressing technique, extended, 5/5, p.73
Navy's experiment, turbine blade use, 4/7, p.92
Powdered metals: Old art, new science, 4/28, p.56
Stainless steel slab powder-scarfing, 1/7, p.230
See Iron Powder

Power Transmission (Mechanical):
Air friction clutch, IE, 5/19, p. 160
Belt conveyor, IE, 4/28, p.132
Brake uses no levers, linkage, 5/19, p.152
Clutch, self-energizing, IE, 4/21, p.134
Demonstration unit for brakes, IE, 6/2, p.162
Drive unit cuts shock load, magnet attach., IE, 4/28, p.136
Flexible shaft handbook, 2/25, p. 109
Gear reducer cuts motor speed, IE, 2/4, p.169
Governing brake, IE, 6/30, p.110
Horsepower needed, engineers told, ENG, 5/19, p.89
Mine hoist drive, 6/23, p.106
Polisher speeds, 1160 rpm, IE, 4/28, p.136
Potential transformers, IE, 6/16, p.182
Power take-off for trucks, IE, 2/4, p.170
Speed drive mounting interchangeable, IE, 6/30, p.103
Speed reducer for conveyor, IE, 3/3, p.144
Speed reducer, fluid-powered, IE, 4/7, p.188
Speed reducer, shaft-mounted, IE, 4/28, p.136
Torque converter for diesels, 6/16, p.104
Torque converter, single-stage, IE, 2/4, p.165
Torque converter, variable speed, IE, 1/21, p.95
Transmission, "19XX" motor car engine, 6/16, p.156
Turning roll, heavy-duty, IE, 4/28, p.134
Variable speed units, IE, 2/17, p.141
V-belt molded sheaves, IE, 6/9, p.148
Worm reduction gear line, IE, 1/28, p.84

Presses:
Aircraft stamping, one-piece fabricating press at Ryan, 4/21, p.96
Air Force heavy press program, (see Air Force)
Alcoa extrusion press, ENG, 2/25, p.75
Alcoa gets German press, 5/26, p.51
Aluminum companies order powerful equip., 2/25, p.50
Die quenching press, pic., 2/11, p.126
Drill press, Duro Metal, IE, 3/24, p.107
Drill press line, IE, 4/21, p.130
Drill press tensioner, IE, 3/24, p.107
Extrusion, Allegheny - Ludlum, 5/19, p.67
Forging press line, IE, 4/28, p.131
Forging press redesign-Maxipress, IE, 1/14, p.79
Holland gets blankholder, pic., 5/12, p.110
Hot pressing applications increase, 5/26, p.80
Hydraulic line, IE, 4/14, p.156
Hydraulic press dev. at Douglas Aircraft, 6/9, p.100
Hydraulic press (4000-ton) will hot form body parts in railway car production, 6/16, p. 141
Metal powder hot pressing technique, 5/5, p.73
Pipeless presses produce artillery projectiles, 4/7, p.95
Press assembles studs to hubs, IE, 2/11, p.136
Press load calculations: Electronics use, 3/10, p.113
Press, multi-duty operation, IE, 2/4, p.161
Press shipped to France, pic., 3/24, p.45
Press unloader, automatic, IE, 1/28, p.84
Processing methods, YC, 287, 1/7, p.298
Punch press mechanical hand feeder, 4/7, p.156
Punch press, open back, IE, 1/21, p.91
Punch press, powdered metals, 4/7, p.149
Punch press redesign, IE, 3/31, p.120
Small press for munitions jobs, 5/26, p.106
Stamping press, automatic feed, IE, 2/18, p.160
Stamping press, Briddell Co., pic., 4/21, p.56
Stamps intricate parts, IE, 2/25, p.123
Staking press, IE, 4/14, p.159
Stretch flattener-aircraft, 5/12, p.142
Thailand Air Force gets press, 3/10, p.158
Toggle-drawing stamping press, IE, 2/18, p.151
Vari-speed pulleys, IE, 1/14, p.82
See Extrusion
See Machines (straightening)

Pressed Metal Institute:
Spring meeting scheduled, 3/3, p.100

Prices:
Automotive parts, FTC views, 5/12, p.52
Autos under attack, 3/31, p.59

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Autos, Cadillac, Hetra [illegible], 4/28, p.59
Controls unit, '51, 6/16, p.59
Copper, domestic, Chilean, world market quotation, 1/21, p.33
Die Casters increase, 5/12, p.70
Fansteel cuts, 6/30, p.36
Foreign copper upped, 5/26, p.39
Freight rate 15% hike, 4/21, p.56
GE cut atomic welder, 3/24, p.32
GE refrigerator cut, 6/16, p.70
GM accounting error, 4/28, p.59
GM Frigidaire cut, 6/2, p.56
Lead [illegible] drop, 6/9, p.51
Mail order houses urge [illegible], 6/16, p.60
Nash-Kelvinator cut refrigerators, 6/9, p.54
Steel, [illegible] adamant on $3 hike under Capehart, 6/30, p.44
Steel increase, possible effect on autos, [illegible], refrigerator, house, 3/31, p.45
Steel companies apply for Capehart, 5/12, p.61
Steelmaking costs hike, 4/17, p.86
U. S. Steel, [illegible] '51, 4/21, p.41

Procurement
Catalog system, Armed Forces need, 1/17, p.62
Catalog system, Federal cuts red tape, 4/7, p.88
[illegible] centralized authority needed, Patman reports, 6/9, p.68
[illegible] buyers for defense, [illegible], p.35
Defense funds allocated, 2/18, p.70
Defense procurement, 6/30, p.67
Federal buying, [illegible], 3/10, p.158
Industry representatives [illegible] in Washington, 6/30, p.36
Military [illegible] '50, [illegible] 1950, 4/7, p.82
Procurement, pix, [illegible] of Contracts, 2/18, p.72
[illegible] Federal [illegible] supply orders, 4/21, p.49
Western [illegible] Procurement office, B, [illegible], p.199

Production
Aircraft, 4/28, p.48
Alloy [illegible], 3/10, p.62
Aluminum, magnesium, [illegible] best [illegible], 2/4, p.62
Auto prospects, '52, 1/7, p.117
Automotive, '51, 1/7, p.241
Autos, passenger, [illegible] output, 6/9, p.75
Blast furnace, '50, 1/14, p.28; Dec., 2/4, p.62; 3/31, p.43; 6/9, p.70
Blast furnaces, '51, 2/4, p.61
British steel, Jan., 3/10, p.81
[illegible], ENG, [illegible], p.75
ENG [illegible] higher, [illegible], 1/7, p.101
Galvanized sheets, 5/26, p.44
Gray iron barometer, 1951, '52, 3/10, p.88
[illegible], 6/12, p.61; 6/30, p.59
[illegible] doubled, 3/24, p.31
[illegible] steel, 6/30, p.67
Magnesium, '51, 1/14, p.36
Machine tools shipped, 5/12, p.[illegible]; 3/10, p.77
Metal per person, '51, 4/21, p.54
Metals world supplies, 4/21, p.41
Pig iron, 6/2, p.64
Republic Steel, [illegible], 4/7, p.86
Steel, 1/21, p.31; 2/18, p.128; 3/24, p.36; 4/21, p.[illegible]
Steel, '51, '52 prospects, 1/7, p.107
Steel strike effect, 5/24, p.39; 5/12, p.60
U. S. [illegible] steel, [illegible]

Production Tools
See Defense Contracts
See Machine Tools

Production Process
Carbide trepanning, accurate holes in record time, 3/31, p.74
Coated abrasives and [illegible] finishing problems, [illegible]
Disintegration [illegible] becomes production necessity, 1/14, p.90
Flexibility key to production control system, 2/4, p.81
Magnesium fabrication [illegible] finished costs, [illegible], p.78
Mechanical die feeds [illegible] production, 3/17, p.86
Motorized line speeds manifold assembly, 6/16, p.144
New method makes stainless extrusion practical, fiberglass sheath as lubricant, 6/2, p.92
New plant ideas pay off for Lebanon, 2/4, p.92
Nuclear gaging controls abrasive coating thickness, 6/9, p.96
Outside production, 1/28, p.39
Production gaging, 5/[illegible], p.88
Production reaming, 6/16, p.96
Proper cutting fluids steps up machining, 6/23, p.72
Remington Rand card system, 2/11, p.108
Titanium sponge to ductile titanium, 6/30, p.78
Tool engineer, his imagination pays off, 3/10, p.196
Tooling: Versatility harnessed to a machine, 3/10, p.108

Proving Grounds
Aberdeen, scrap collected, 4/7, p.133
Paving job, Milford, 5/26, p.62

Pumps
Arc welding, 4/14, p.94
Centrifugal pump testing costs reduced, 4/21, p.94
Fairbanks-Morse, pic, 4/14, p.75
Oil handling pressures to 275 psi, IE, 1/28, p.84
Oil hydraulic motor-pump, IE, 4/21, p.132
Pump aids plating agents, IE, 1/7, p.350
Pump moves difficult materials, IE, 2/4, p.166
Venturi jet pump for soaking pits, 1/7, p.227
Vibrator delivers material pump, IE, 3/31, p.119

Punching
Hole punching unit, IE, 5/19, p.148
Piercing large parts, IE, 1/28, p.86
Piercing punches, IE, 3/10, p.206
Piercing unit, IE, 3/3, p.140

Purchasing Agents Assn.
Chicago elections, B, 6/2, p.188

Purchasing Agents
Federal directory, 3/10, p.158
Mullins Mfg., [illegible] with Farrell, 4/14, p.71
Republic, 6/2, p.61

Purdue University
Conference, YC, 1/7, p.434
J. L. Bray, Minor metals are major issue, 4/21, p.60
Cooperate on testing machine, 4/14, p.65

Q

Quality Control
International Harvester system, 3/17, p.82
Pressed Metal Inst. report, 4/28, p.126
Quality control pays, need a system, [illegible] vigilance, 5/19, p.90

Quenching
Cutting tools, oil stream cools, 1/21, p.70
Silicon chromium steel, closer hardenability control, 1/7, p.114

R

Radio, Television
Antenna controls safeboat, 2/25, p.78
GSA lab, Calif., 6/2, p.63
Materials supply up, 4/14, p.67
Radio receiver, Motorola, 3/24, p.96
TV ban lifted, 4/21, p.43
TV on the way, 2/25, p.65
TV station licensing drives equipment, 6/9, p.67
TV Tubes, 27 in., 5/12, p.54
Voice of America radio, 3/10, p.83

Radio Television Manufacturers Assn.
Electronics misuse studied, 3/17, p.94

Railroads
Army locomotive, Mrs. I., 4/21, p.86
Bids called for equipment, 2/11, p.63
C & O low-slung passenger car, 6/16, p.60
Certificates of necessity head list, 2/11, p.65
Copper-lead bearings developed for slow speed diesels, 2/4, p.94
De-icing switches, pic, 1/21, p.125
Diesel noise reduced by cylinder head covers, ENG, 5/12, p.87
Diesel runs on varying tracks, ENG, 5/5, p.97
Electric locomotive tests, 5/5, p.151
Erie conversion nears end, 6/2, p.74
Expansion, next two years, 3/3, p.48
Expansion prospects, 1/7, p.108
Foot warmers for crane and coal mine operators, 5/26, p.124
Freight cars automatically loaded, pic, 6/30, p.141
Locomotive governor improved, IE, 2/25, p.124
Locomotive, ignitron rectifier, ENG, 4/7, p.113
Locomotive shipped to Panama, pic, 6/23, p.53
Locomotives fewer, NPA told, 1/21, p.45
Locomotives (steam vs diesels), 6/16, p.164
Material shortage for equipment, 4/14, p.68
Railway car hot-forming (see Forming, Bending)
Spectrographic analysis for maintenance, 5/26, p.87
Windmills at junctions, pic, 3/10, p.81
See Freight, Freight Rates

Raw Materials
Canada demands refining before export, 2/4, p.85
Cryolite short, Greenland, 6/9, p.65
IMC distribution (see, Foreign Trade)
Substitution for shortages, YC, 1/7, p.242
See Nickel

Reaming
Production reaming: Fine finishes faster, 6/16, p.96

Reclamation
Iron from slag, pic; iron from water, pic, 4/14, p.29
Manganese from slag, ed.; man deal pending, 1/21, p.10
Metal recovery by ion exchange paper presented, 5/19, p.142
Rotary unit speeds aluminum chip drying, 5/19, p.136
Silica gel, ENG, 3/17, p.84

Refractories
AISE tech papers, 5/26, p.88
Blast furnace super-refractories, 3/3, p.84
Business await steel settlement, 6/2, p.66
Catalytic cracking process, 3/10, p.160
Cost outweighed by high steel output, 5/26, p.88
Crucibles float-melting, ENG, 3/24, p.87
Galvanizing pot lining, ENG, 1/14, p.91
Hy-Temp Refracto-line, IE, 4/21, p.139
Magnesite brick aids cupola linings, 1/28, p.78
Slag resistant brick, IE, 1/28, p.93
Spalling vs. disintegration, ENG, 6/9, p.89

Refractories Institute
Directory: U. S. refractory mfgs., 6/30, p.100
Chilling machine, Deepfreeze, IE, 3/10, p.194

Research
Commercial research, '52 predictions, 1/21, p.43
Corrosion studies, Lewis Flight lab, 5/19, p.103
Expenditures '51, 2/18, p.58
Expenditures '52, sources, ENG, 2/25, p.75
Expenditures rise, ENG, 3/31, p.73
Expenditures, '52, Government, 4/28, p.38
GE-metals stress formula, 1/21, p.61
GE molten metal solidifies as show forms, ENG, 1/21, p.61
GE switchgear lab, 6/30, p.59
Metals in frigid temperatures, ENG, 6/30, p.75
Quartermaster lab soon, 5/5, p.76
Kure Beach lab enlarged, 4/28, p.49
Lab tools exhibit, 3/3, p.107
Metal ceramics, YC, 1/7, p.258
Military research warning, 1/28, p.41
Navy, air speeds of sound, 3/17, p.110
Navy, compensator temperature test, 4/21, p.116
Navy, faster hydrogen analysis, 6/23, p.90
Navy, metal substitutes, 2/25, p.84
Navy quartz for asbestos insulation, ENG, 4/7, p.11
Navy, welded aluminum tubing, 2/18, p.72
Planned research, profitable business insurance, 4/21, p.85
Key to Metal's future, 5/5, p.141
Sewage treatment, 6/2, p.143
Spectroscopic lamp, length standard, 6/16, p.179
Stanford Research Institute atomic waste products, 6/9, p.126
Steel keeps pace, Engineers Council of Houston report, 5/12, p.108
Titanium facilities pushed, 4/7, p.87
Tool research, ASTE, 5/5, p.148

Resistance Welder Manufacturers Assn.
Prize-paper contest, B, 5/5, p.202

Roads
Federal aid may increase, 4/14, p.56
Road building equipment industry report, 4/28, p.49
Roadway gratings foreseen, 4/7, p.158
Structural allotments increase, 4/21, p.56

Rolling Mills
Atlas Steels installs Sendzimir unit, 3/17, p.57
Beta ray checks rubber roll quality, 4/7, p.162
Brazil hot strip mill, B, 4/21, p.115
Kaiser Steel mill, GE equip., 5/26, p.129
Czechoslovak mill, Treasury halts sale, 1/28, p.36
GE opens Pittsfield tube rolling bldg., 5/5, p.154
Magnesium sheet rolled, ENG, 4/14, p.91
Measuring width of hot strip, 1/7, p.231
Meehanite rolls use replaces metal shortage, YC, 1/7, p.295
Pittsburgh Steel amplifier system controls cold mill, 2/18, p.120
Pittsburgh Steel, 1/21, p.361
Westinghouse award, 1/28, p.28
Pittsburgh Steel mill twin-motor drives, ENG, 5/12, p.87
Rollers aligned by bearings, IE, 3/17, p.141
Rolls engraved automatically, 3/24, p.89
Single-stack annealing furnace employed by narrow strip mills, 5/12, p.98
Smooth finish for strip, 3/3, p.82
Strip processing conveyors carry scrap, ENG, 2/18, p.94
Strip rolling adds to warehouse service, 5/19, p.101
Tandem mill increased speed, 1/7, p.232
Ultrathin strip precision rolled by Sendzimir mill, 1/7, p.119
Youngstown Sheet & Tube equip., Chicago, 1/21, p.44

Rubber
Barges-Army cargo carriers, pic, 4/28, p.50
Chemical stabilizer for synthetic rubber, 6/2, p.126
Pipe fittings get rubber lining, 6/23, p.89
Stainless conveyor belts aid flow, 2/4, p.123
Synthetic rubber, Neoprene lines, 3/3, p.97

Russia
Blast furnace per cent high pressure blowing, 3/3, p.84
Russian tractor, pic, 6/2, p.191
Steelmaking behind Iron Curtain, 4/14, p.73

Rust:
Corrosion-resistant mist (VIP), 2/25, p.83
Moisture meters at Army Ordnance, 4/14, p.70
Rust inhibitor, IE, 6/2, p.160
Storeroom dehumidifier cuts rust, 4/7, p.180
See Chemicals
See Moisture

S

St. Lawrence Seaway:
Britain to aid Canada, 6/30, p.36
Cost, revenue gain, 3/24, p.49

Safety:
Accidents Facts, NSC Yearbook, 6/30, p.96
AWS safety revisions, 2/25, p.105
Electrical safety, GM, 4/7, p.170
Faceshield, IE, 4/7, p.203
Goggle, plastic frame, IE, 6/30, p.111
Fiberglass helmet, IE, 6/9, p.153
Heat repelling glove, IE, 2/11, p.142
Hyflex gloves protects against chemicals, IE, 2/4, p.174
Respirator hood for dust-paint spray protection, 4/21, p.136
Safety goggle, plastic, IE, 6/16, p.189
Safety tongs, IE, 2/18, p.167
Safety tongs, IE, 4/28, p.140
Tongs, handle forgings, 4/21, p.103
Towmotor kit, literature, 2/4, p.129

Salaries: See Financial

Salesmen:
Life with a salesman (D. E. Davidson reports), 6/9, p.72
Steel salesmen active-'52, 1/14, p.26

Scales, Weighing:
Classifying scale, IE, 2/11, p.135
Crane scale dial, IE, 1/28, p.83
Cumulative weighing scale, IE, 2/18, p.151
Drafting machine scales, IE, 3/31, p.128
Mold sand mixes electronically weighed, 2/18, p.110
See National Bureau of Standards

Scarfing:
Armor plate casting scarfer, IE, 1/14, p.2

Scrap:
Aberdeen Proving Ground, obsolete items, 4/7, p.113
Automotive: 176 million lbs, ENG, 4/21, p.79
Autos junked-'51, 1/7, p.154
Baler achieves density: 45-70 per cent, 2/25, p.106
Bundled scrap, '51, 1/21, p.36
Bundled scrap at Weirton detinning plant, 1/28, p.70
Canada deal, three-way, 6/9, p.54
Collection difficulties, 1/21, p.35
Collection, GM, Ryerson, 2/4, p.61
Collection, Shakeproof, 2/18, p.68
Collection, Sun Oil, 1/14, p.37
Copper still needed, 4/21, p.54
Crisis ends, 2/18, p.67
Demand continues for scrap grades, 2/25, p.48
Export motor blocks, 5/5, p.72
Exports, unstripped motor blocks, etc., 6/2, p.64
Fradulent practices, Crucible uncovers, 6/2, p.64
Germany joins scrap group, 6/2, p.73
Locomotives, Erie, 6/2, p.74
Magnet mfg.s seek scrap cobalt, nickel, 4/21, p.54
Mining scrap iron from slag dump, pic., 1/14, p.29
Navy sales, 5/5, p.75
Nonferrous scrap eases, 4/21, p.53
Petroleum firms collect, 2/25, p.58
Railway at Pittsburgh scrapped, B, 3/31, p.159
Metal chip crusher, pic., 2/18, p.67
Steel strike effect, 6/30, p.44
Supply easing in spring, 3/10, p.81
U. S. frozen out of world market, 3/10, p.70
Wheeling program, 1/21, p.69
Windmill, pic., 3/3, p.185

Sealing:
Aluminum-colored sealer, IE, 4/7, p.200
Auto moisture seal, pic., 6/30, p.96
Cup expanders, IE, 4/14, p.169
Engine protected by flexible mounting system in delivery, pic., 3/24, p.86
Material seals seams-gaps in metals, IE, 3/31, p.131
Military vehicles sealed for storage, 3/24, p.81

Sheet & Strip:
Galvanized sheet demand forecast, 4/21, p.168
Galvanized sheet output, 3/24, p.44
More zip for strip handling, 2/18, p.94
Polyester laminated sheets, IE, 5/5, p.171
Rule figures sheet sizes, 3/3, p.128
Smooth finish for strip moving abrasive produces it, 3/3, p.82
See Rolling Mills

Shells: See Ammunition

Shipbuilding:
Aircraft carrier, aluminum framework on tanker deck, 3/17, p.94
Aircraft carrier, steam catapult, ENG, 5/12, p.87
Appropriations request, 3/17, p.57
Arthur M. Anderson, 2/25, p.48
Boom in sight, 1/28, p.40
Business prospects '52, 1/7, p.108
Cason J. Callaway, B, 3/31, p.155
Dutch liner, *Maasdam*, 4/14, p.73
Edward B. Greene christened, B, 1/14, p.115
Joseph H. Thompson, B, 5/5, p.201
Loading *USS Hornet* by ramp method, pic., 3/3, p.59
Merchant shipping, obsolete ships threaten, 3/24, p.40
Ocean ships for Great Lakes, 3/10, p.89
Richmond shipyard reactivated, B, 2/18, p.191
SS Keystone Mariner, 3/3, p.59
T-2 tankers need more plates, 6/2, p.74
U. S. increase in shipbuilding, 3/3, p.59
William Clay Ford, B, 4/14, p.193
See Defense Contracts

Shipments:
Armaments: 1-day steel average, 6/30, p.44
Armaments, steel, 3/24, p.31
Finished steel, 11-months of '51, 1/28, p.36
Finished steel, 2/25, p.59
Freight cars, 1948-52, average monthly, 4/21, p.55
Iron ore, 4/21, p.57
Iron ore, Fairless scheduled, 3/10, p.79
Iron ore, Sweden reduces German supply, 1/28, p.45
Iron ore, Liberian to Republic, 4/7, p.86
Nonferrous, '48-'52, 4/14, p.67
Steel-defense increases, 3/24, p.31
Steel, J & L, 1950-'51, 4/21, p.56

Shipping:
Albert E. Heekin, 1st ore boat of season, 4/21, p.57
Iron ore carriers ready to start, 3/17, p.67
Loss and damages cited, 4/14, p.68
Merchant ships obsolete, 3/24, p.40
Michigan Limestone opens season, 3/31, p.38
NSA orders vessels layup, 3/10, p.89
NSA retires more ships, 4/21, p.63

Shop Equipment:
Die lift table, IE, 5/12, p.162
Dust pan on wheels, IE, 2/4, p.172
Flexible electric light unit, IE, 5/19, p.160
Hi-Lift telescopic tower, IE, 5/26, p.140
Hydraulic portable crane, IE, 2/4, p.170
Jack center-hole puller, "Jenny", IE, 1/14, p.82
Scarifying machine cleans truck aisles, IE, 2/4, p.161
Turntable rotates large diameters, IE, 6/2, p.162
Work benches, IE, 1/21, p.86

Shot Peening:
Shot peening study published, 4/28, p.118

Small Business:
Air Force contracts viewed, 5/12, p.51
CMP self-certification help, 4/21, p.56
Defense contracts, 1/21, p.25
Defense procurement, ratio rising, 2/25, p.39
Hardship allotments, 2/11, p.58
How to stay in business, 2/4, p.63
Navy contracts, 3/17, p.60, 5/26, p.76
Navy procurement advisors, 4/21, p.58
Percentage target pushed, 6/2, p.55
Production pool (6th), 1/21, p.40
Renegotiation aid, 4/7, p.78
SDPA growing in importance, 2/18, p.57
Union demands (prepare for following strike), 2/25, p.49
Seattle hit by demand lack, 6/9, p.73
Taylor wants write-off changes, 3/3, p.55
Telescoping steel shore, IE, 5/26, p.142
Wage exemption expected, 1/14, p.17

Smelting:
Rare metals require precision furnacing, 3/3, p.77

Smoke:
Smoke control, U. S. Steel, ENG, 5/5, p.97
Unit controls boiler smoke, 2/18, p.128
See Pollution

Society of Automotive Engineers:
Meeting, super transmission proposed, 6/16, p.156
Shot peening study published, 4/28, p.118

Society of the Plastics Industry Inc.:
Tech session, Chicago, 4/28, p.92

Soldering:
Cold Solder, filler material, IE, 2/4, p.179
Flux (see)
Soldering iron, IE, 4/21, p.134
Supersonic soldering, ENG, 3/10, p.105
TV receivers, new technique, ENG, 6/16, p.95

Sound:
Ultrasonics, inspection applications grow, 6/16, p.99
Ultrasonics (sound wave-industry use), ENG, 6/23, p.71
Ultrasonics, supercleaning small parts, 6/23, p.106
Westinghouse lab, acoustical research, 6/23, p.109

South America:
Steelmaking expansions, 2/11, p.63
U. S. mfg. equipment, pic.s, 3/10, p.87

Spinning:
Precision spinning forming dials on aircraft gyro indicators, 3/24, p.68

Springs:
Business competition, 5/5, p.73
Precision spring coiler, IE, 3/3, p.139

St. Paul & Pacific Railroad:
Freight car loaded automatically, pic., 6/30, p.141

Stainless Steel:
Brazed without fluxing, 1/14, p.57
Carbon, checked, 3/3, p.126
Chrome stainless: Easing the pinch, 4/28, p.79
Chrome stainless (Type 430) formed, 6/9, p.95
Decontrolled stainless: A solution to shortages, 3/24, p.72
Stainless properties charted, 4/7, p.164
Tests, segregating steels, 3/3, p.130
Tips on forming 17 chromium stainless, 6/9, p.95
Uses booklet, 3/10, p.168

Stamping:
See Marking Stamping

Standards:
Baskets weight for parts handling, 4/21, p.83
Bolt, nut, rivet rev., 6/2, p.144
Casting spec. chart, 6/16, p.102
Castings, Wright-Patterson, 6/30, p.50
Chrome ore, 4/14, p.114
Diamonds, ASTE report, 4/28, p.102
Electrical order protested, 5/19, p.71
Fastener sizes, 4/21, p.86
GSA promises further standardization, 5/26, p.105
Gaillard Seminar, B, 4/7, p.227
Guide, standard fixes machined surfaces, 2/25, p.99
ISO meeting, bearings, 4/28, p.124
ISO meeting scheduled, machine tools, 6/2, p.121
ISO meeting, screw threads, 2/25, p.114
ISO meeting, hardness tests, 6/16, p.71
ISO meeting, preferred numbers approved, 6/23, p.114
Military boxes, 4/28, p.109
Packaging, Air Force program, 2/11, p.81
Packaging program, Black & Decker, 4/21, p.82
Pipe flange, 3/3, p.130
Pipe flange, ring-joint sizes, 6/2, p.100
Plumbing book, 4/28, p.123
Porcelain enamel, reflectance test book, 5/19, p.134
Resistors meet military specs, 4/14, p.123
See ASTM, Gov't (Munitions), NBS

Steel:
Average steel stocks, 4/14, p.65
Clad steel bullet jackets conserve copper and zinc, 1/21, p.68
Costs hike for steelmakers, 4/14, p.66
Demand-supply picture, 1/14, p.26, 1/28, p.35
Designer Fritz Fischer reports on wasted materials, ENG, 6/23, p.71
Die steel, IE, 1/21, p.99
Die steel easy to hob, 2/18, p.142
Embrittlement studied (see National Bureau of Standards)
Financial analysis (insert), 4/21, p.58
Finished products-steel distribution shifts, 2/25, p.59
Finished products-market class-'51, 4/7, p.96
Finished steel demand (1975), 6/30, p.46
Gray market prices declined, 1/21, p.39
Ingot expansions by companies, 3/3, p.54
Management free to manage", 4/14, p.66
Inventory despite strike, 6/23, p.43
Market competition, U. S. Steel-Bethlehem, 2/25, p.40
Profit facts: STEEL challenges President's computing, 4/14, p.63
Scaffolding business, 2/18, p.68
Scale removed (see Blasting, Pickling)
Steel: Normal selling soon, 4/28, p.46
Steel squeeze eases, 1/28, p.35
Strapping makers feel strike pinch, 6/30, p.49
Steel consumed-'51 (per person in nation as against per person in West), 6/2, p.65
Who's making steel during strike (chart), 6/9, p.62
See Capacities
See Distribution & Warehousing
See Production
See Shipments
See Structurals

Steel—CIO Dispute:
Arnall, Fairless discuss case (pic), 4/7, p.91

Code: B—*Briefs*; ENG—*Engineering and Production News*, IE—*Industrial Equipment*; YC—*Yearbook Comment*

Basic companies operating (table) 6/9, p.82; 6/16, p.68
Basic companies operating (snag) 6/30, p.43
Capehart urged 2/4, p.60; used soon 2/18, p.57; Arnall to issue 4/28, p.45; companies applying 6/30, p.44
Case highlights 6/9, p.63; 5/12, p.59; 5/5, p.70; 4/14, p.64
Chart (Total civilian labor vs. union members) 6/16, p.67
Fairless stresses tax loss 2/11, p.55
Hearing postponed 4/21, p.37
Judge Pine rules 5/5, p.69
Olds retirement address 5/12, p.60
President orders seizure 4/14, p.63
Putnam to determine wage 4/28, p.45
Randall speaks 4/14, p.61
Sawyer: no abrupt action 5/5, p.69
Settlement by July 7? (STEEL survey) 6/30, p.43
Settlement may be $7.50 a ton, 15 cents an hour 1/14, p.25
Settlement may be $5.50-$6.00 a ton, 20 cents an hour 6/9, p.61
Settlement (Rep. Allen hints at "deal") $2.40-$3 a ton, 15 cents an hour 3/3, p.39
Settlement (secret poll of steel makers) 22 cents an hour 6/23, p.36
Settlements companies signed 6/23, p.44; 6/30, p.41
Settlements, postwar (see Wage)
Steel case omens for industry 6/16, p.67
Strike losses: 34 million tons 6/23, p.44
Strike losses (wage-sales) $1.5 billion 6/30, p.43
Strike odds favor peaceful settlement 2/14, p.55
Strike odds 1 to 2 3/17, p.55
Supreme Court ruling expected 5/12, p.59; Justice Jackson decision 5/19, p.61
Wage increase chart (WSB vs. Industry) 4/28, p.45
WSB recommendations 3/17, p.55; 3/31, p.45
WSB muddles steel case 3/24, p.39
Washington views 1/28, p.42

Steel Cabinets
Industry report 3/31, p.48

Steel Drums
Used drum business down 5/12, p.62

Steel Founders' Society of America
Casting spec. chart 6/16, p.102

Steel Founders' Society:
Casting redesign files 5/26, p.78
Meeting awards B, 3/31, p.159

Steelmaking:
Bessemer grades give way to resulphurized openhearth steels 5/12, p.63
Blast furnace practice
  Part IV Influence of coke ash on thermal effects 2/4, p.98
  Part V Comparison of operating data 2/11, p.97
  Part VI (a) (b) (c) (d) Generation, recovery and use of heat 2/18, p.112; 2/25, p.88; 3/10, p.118; 3/17, p.98
  Part VII Comparative values of fluxing stones 3/24, p.90
  Part VIII Slag composition research 3/31, p.86
  Part IX (a) (b) (c) Raw materials problem 4/7, p.121; 4/21, p.98; 4/28, p.84
  Part X Beneficiation of raw materials 5/19, p.106
  Part XI (a) (b) (c) (d) Beneficiation of air 6/2, p.102; 6/9, p.106; 6/16, p.142; 6/23, p.82
Capacities (steel ingot, pig iron) Past, present, pending 3/3, p.51
Chart, steelmaking rate (Apr., May, June) 6/9, p.61
Desulphurization worth watching 1/28, p.76
Electric furnace heats calculated 1/21, p.72
Embrittlement tests (see NBS)
Hardening characteristics, methods predicts 5/26, p.118
Geographic center of steelmaking 4/21, p.57
Hydrogen analysis (see Hydrogen)
Oxygen used, National Tube, ENG, 1/14, p.53
Processing methods YC 1/7, p.287
Russia's program 4/14, p.73
Scale removed (see Blasting, Pickling)
Turbo-hearth, U. S. Steel method at Birmingham 5/5, p.139
See Blast Furnaces
See Furnaces
See Heat Treating & Annealing
See Open Hearth

Steel News Industries:
Booklet, gas cutting torch 4/7, p.158

Stitching:
Wire stitching magazine 3/3, p.107
See Machines

Storage:
Machine stored underground, Kansas Army Ord. ENG 1/14, p.53
Ordnance "coffee cans" pic., 3/10, p.78
See Rust

Structural Steel:
Allotments (See CMP) 4/21, p.56
Demand-supply analyzed 2/18, p.67
Fabricators seek building approval 2/25, p.48
New designs YC 1/7, p.251
Structurals, signs of relief 2/11, p.54

Subcontracting (See Defense Contracts)

Suggestion Plans:
See Incentive Plans

Sulphur:
British plant, acid from copperas, ENG, 4/28, p.73
Production by 1954, 1955 3/24, p.32
Shortages 52 prospects YC 1/7, p.528
Steel barge, portable plant near New Orleans pic. 2/25, p.50
See Desulphurization

Surface Treatment:
Abrasive coating thickness controlled by nuclear gaging 6/9, p.96
Accelerated phosphate coating (prepainting treatment) 5/12, p.92
ASTE report 3/31, p.80
Coated abrasives ease jet blade finishing problems 6/9, p.90
Compressor blades painting decreases hydrogen embrittlement 3/24, p.76
Electrode deposit fights wear (on worndown uncoiler cone adapters) 2/11, p.85
Electrolytic grinding 3/17, p.84
For better finishes clean aluminum thoroughly 2/11, p.88
GM coating process "Alldip" 6/16, p.82
Phosphatizing ... versatile substitute for metallic coatings 1/28, p.64
Production reaming: Fine finishes faster 6/16, p.96
Rolls engraved automatically 3/24, p.89
Scale removed from metal, ENG 4/28, p.73
Slurry coating protects aluminum from iron pickup 6/9, p.122
Smooth finish for strip ... moving abrasive produces it 3/3, p.82
Surface finishes measured for roughness by "Calibblocks" 2/18, p.68
Tungsten carbide surfacing ENG 2/18, p.93
Worn bearing surfaces reclaimed 2/18, p.104

Surveys
Labor productivity NICB 2/25, p.39
NPA employment metalworking 3/3, p.48
Steel capacities: Past, present, pending 3/3, p.51

T

Taconite:
Allis-Chalmers' test plant 4/7, p.86
Companies (Reserve Mining, Erie Mining, Oliver Iron Mining) 3/17, p.65
Crusher used at Reserve Mining 3/17, p.66
Erie Mining proposes plant, Mesabi range 2/25, p.51
Erie Mining, DPA approves facilities 4/21, p.57
Humbolt Mining formed (Cleveland-Cliffs, Ford) 3/10, p.80; 3/17, p.65
Jet-piercing machine used at Mesabi 6/30, p.89
"Pelletizing" furnace, New technique 3/3, p.48
Reserve Mining, project reports 2/25, p.51; 3/10, p.80; 3/17, p.65
Taconite produced YC 1/7, p.223
World production 4/21, p.81

Tape:
Index to circuit data 6/23, p.92
Masking tape, stain resistant IE 3/3, p.150
Waterproof tape IE 6/16, p.193

Telephones:
See Communications

Temple University:
Contributor YC, H. C. Boynton, 1/7, p.280

Threading:
Helical inserts speed repair of bolster-plate threads 2/18, p.102
Pipe thread data 2/18, p.142

Tin:
RFC tin-buying strike cuts stocks 1/14, p.32
New Malayan Tin Bureau B 4/7, p.227

Tin Plate:
Flow brightening speeded by preheating 2/11, p.129
Radiant heat accelerates tin plate annealing 4/14, p.106
See Electroplating, Plating

Tin Research Institute:
Hardenable pewter new 2/4, p.87
New tin-nickel electroplate, England, ENG, 6/9, p.89
Tin-nickel coatings described 1/21, p.67

Titanium:
Canadian firm mines 3/10, p.82
Crane Co. explores field 3/31, p.49
Douglas uses more 6/16, p.73
Kropp titanium bar forging 3/3, p.50
Machining possible 1/21, p.25
Magnesium removed by vacuum distillation, booklet 4/7, p.172
Ore to titanium 6/30, p.78
Production progress YC 1/7, p.246, 247
Production up, processing improvements described 2/4, p.117
Research pooled, Glidden and Bohn 4/7, p.87
Sharon Steel experiment 2/18, p.69
Titanium: Big production gains 6/30, p.76
World production 4/21, p.81

Token Industry:
Business report 3/3, p.50

Tool & Die Industries:
Business report, West Coast boom, apprentice deferment 2/25, p.58

Tools (Cutting):
Bolt cutter, blades reversed IE 3/31, p.131
Carbide tipped drill bit IE 4/21, p.134
Carbide tool data for shell makers 3/3, p.129
Carbide tool grinder, German made 6/16, p.156
Carbide trepanning 3/31, p.74
Carboloy cemented carbide bushing ups nozzle life 2/4, p.144
Cemented carbide families grow 4/21, p.84
Chromium plating ... new life for worn parts 3/31, p.76
Cutting carbide IE 4/14, p.166
Cutting torch IE 1/28, p.90
Drill bit, Thunder-Twist IE 6/30, p.112
Edge tester gages plier quality IE 6/30, p.111
End mills, die cutters IE 3/31, p.127
Files, industry report 3/24, p.51
Guide: For selecting tool steels and carbides 6/16, p.107-139
Helical carbide speeds cutting 4/21, p.110
Hot pressing applications increase 5/26, p.80
Inserted carbide end mills IE 6/9, p.148
Jet alloys tough on tools 2/4, p.124
Milling cutter, Kennamill IE 3/3, p.157
Metal cutting concept lengthens tool life 1/21, p.78
Portable centering tool 1/14, p.64
Rotary cutter, lathe-type ENG 1/28, p.63
Shear blades have carbide inserts 6/9, p.93
Slitting shear, 14-in. blade IE 1/21, p.88

Tools (Hand):
Impact wrench IE 3/24, p.120
Driver with removable bits IE 1/28, p.93
Mallet, soft plastic IE 5/5, p.172
Marks dies and tools IE 5/26, p.149
Plier-snip IE 3/31, p.127
Pliers, parallel-action IE 4/7, p.200

Tools (Misc.):
Nut runner, air powered IE 3/31, p.126
Ratchet lowering lever jack IE 4/21, p.134
Safety hammer IE 3/31, p.128
Magnetic screw driving device IE 5/12, p.166
Tool holder rights shift 4/14, p.120
Tooling (jigs, tools) costs reduced 2/18, p.98
Tools reconditioned at Chrysler 5/26, p.79

Toys:
Copper shortage 3/3, p.49
Lionel trains, output high 4/28, p.48

Training:
AMA opens center 2/11, p.65
GE trainee on milling machine pic. 2/4, p.60
MIT courses, spectroscopy 4/7, p.154
MIT courses, instrumental analysis 4/7, p.161
MIT course, electronics 4/28, p.123
Scrap course 3/17, p.86
Spray operators 3/31, p.109
Summer jobs, ASM lists 4/21, p.52
Technically trained-shortage YC 1/7, p.268
Welding, Lincoln Electric 4/28, p.109
X-Ray school 2/25, p.105

Transportation:
Knudson requests DPA aid 3/24, p.50

Tubes:
See Pipe, Tubing, Fittings

Tumbling:
Buick washer-tumbler 4/7, p.117
Separator IE 1/14, p.79

Tungsten:
World suppliers 4/21, p.81

Turbines:
B-L-H pic. 5/19, p.72
Blades for Punjab turbines pic. 6/2, p.140; blades cast in stainless 6/23, p.92
Condenser welding time cut 4/28, p.107
Gas pipeline pumping 5/26, p.130
Gas turbines 4/14, p.129

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

GE turbines, 4 million kw, 3/10, p.160
Headcover positioned, pic., 5/26, p.111

U

U. S. Naval Ordnance Laboratory:
Muzzey Jr., contributor, YC, 1/7, p.244

University of Michigan:
Chromium plate tests, 6/16, p.104

University of Minnesota:
Davis, contributor, Forum on Technical Progress, 1/7, p.223

University of Wisconsin:
Fuels institute scheduled, 4/28, p.114

V

Valves:
Air control, Pilot-Master, IE, 6/2, p.160
Air flow control, IE, 3/24, p.118, 2/11, p.147
Ball valve, IE, 6/23, p.140
Brazil shipped butterfly valve, pic., 5/26, p.57
ChemKovers, IE, 1/21, p. 96
Combustible gas alarm, IE, 2/18, p.162
Control valves, IE, 4/21, p.139
Diaphragm valve, IE, 6/9, p.150
Double-seated valve used with control instruments, 5/19, p.163
Dual purpose valve, IE, 1/14, p.86
Electrically-heated valves, IE, 6/16, p.189
Explosion-proof, IE, 3/17, p.141
Flow and liquid level control, IE, 6/9, p.148
Flow meters, open channel, IE, 5/26, p.146
Flow valve, material resists corrosion, 5/26, p.123
Gas regulator, precision pressure, IE, 3/10, p.204
Gate valve drives, 5/26, p.120
Goggle-type plate valve for blast furnace, IE, 6/30, p.103
Liquid, gas flow, Mite purge meter, IE, 1/28, p.88
Pilot valve, solenoid operated, IE, 3/17, p.136
Small cam valve, IE, 3/3, p.154
Solenoid valve, X5, IE, 4/7, p.203
Steam trap, IE, 3/24, p. 123
Water alarm, boilers, IE, 1/7, p.555

Venezuela:
Contract to Bolivar, B, 1/28, p.117
Orinoco Mining contracts, B, 3/10, p.233

Ventilation:
Fan ventilator, IE, 4/23, p.130
Propeller fans spec., 4/7, p.180
Roof-type ventilator, mechanical louvers, IE, 4/14, p.160
Ventilator clears impure air, IE, 2/4, p.165
Ventilator, Mine Safety, IE, 3/31, p.119
Welding operations cleared by portable air movers, 6/23, p.116

Vibrations:
Electronic tester, IE, 6/2, p.156
Instrument mount cushion vibration, ENG, 2/18, p. 93
Lathe vibrations pinpointed, 6/2, p.99
Snubbers cut compressor pipe pulsation, 4/28, p.82
Vibrator, all-directional power, IE, 2/11, p.144
Vibrator frees sealed tungsten, ENG, 2/11, p.81

W

Wage Stabilization Bd.:
See ESA
See Steel-CIO Dispute

Wages:
AFK teamsters upped, 3/24, p.45
Aluminum ruling pending, 3/17, p.56
British demands, 6/2, p.73
Building trades up, 5/5, p.71
C-O-L raise, GE-GM, 3/3, p.47
C-O-L raise, Westinghouse, 5/26, p.50
Die sinkers, Ohio, ask raise, 4/28, p.37
Escalator effects, 3/3, p.47
GE strike looms, 5/12, p.61
Railroad boost, 5/26, p.40
Reuther plans next GM demands, 2/25, p.50
Salaries (See Financial)
Small companies face demands, 2/25, p.49
Steel, average hourly increase (WSB-Industry chart comparisons), 4/28, p.45
Steel hourly earnings, 5/19, p.62
Steel pay scales, outlined, 1/21, p.37; 2/18, p.69
Steel payroll-April, 6/16, p.68
Steel postwar settlements, (chart), 1/14, p.25; 6/9, p.61
Steelworkers hourly wage, 1946-52, 4/21, p.51
UAW, 4-cents increase, 6/2, p.77
Union demands, fringe benefits expected after strike, 2/25, p.49

Warehousing, Distribution:
Steel distribution, finished products by market classification, 1951, 4/7, p.97
Steel inventory control relaxed, 4/7, p.78

Wastes:
Lagooning purifies metalworking wastes, 4/14, p.98

Watches:
Watchmaker's lathe products aircraft parts, 6/9, p.103

Water:
Conditioning equipment, industry report, 2/11, p.65
Demineralizing unit, IE, 5/26, p.138
Water data revised, 4/14, p.111
Water-hardness test, 3/24, p.89
See Corrosion
See Government
See Pollution

Weapons:
Atomic weapons, 3/3, p.58
Small arms makers, controls complaint, 6/2, p.67
See Armament
See Defense Contracts

Weighing:
See Scales

Welding (Arc):
Arc-air torch; jet process, 2/25, p.79
Bazooka torch, IE, 5/26, p.149
Bushing increases nozzle life, 2/4, p.144
Heavy-duty welder, IE, 5/5, p.168
Heliarc inert gas-shielded process, YC, 1/7, p.382
Heliarc torch on galvanized coating, 3/31, p.96
Heliarc welding magnesium castings, ENG, 4/28, p.73
Hidden arc setup for gondola chute plates, 6/23, p.101
Inert arc welding cuts stainless finishing costs, 6/23, p.95
Lightweight welders, IE, 2/18, p.153
Nodular cast iron welds hard to machine, 6/23, p.78
Seamless iron pipes, pic., 5/19, p.71
Shielded inert gas used in alum. fabrication, YC, 1/7, p.262
Shielded submerged arc welds withstand rugged service, 4/14, p.94
Stud welding, Nelson gun, 6/16, p.166
Torch cuts tungsten, gas consumption, aircraft engine, 4/28, p.96
Transmission assemblies arc-welded automatically, 4/28, p.74
Welder has central controls, IE, 1/28, p.83
See Books

Welding (Gas):
Booklet, "File Facts", cutting torch, 4/7, p.158
Contour weld, semiautomatic, IE, 1/28, p.86
Packing gland journal welded, 6/23, p.118

Welding (General):
Electric welding conference, Detroit, 4/21, p.90
Electronic control, IE, 4/21, p.136
Fastening & assembling methods, YC, 1/7, p.379
Gantry runs on 100 ft track, 2/4, p.126
Nodular cast iron welds hard to machine, 6/23, p.78
Positioner, compact frame, IE, 2/18, p.159
Positioner engages hopper cars, IE, 2/4, p.165
Positioning table, Allis-Chalmers, 2/11, p.94
Rods for welding aluminum, IE, 3/10, p.206
Safety revisions, 2/25, p.105
Transformer welder redesigned, IE, 3/10, p.194
Underwater welding reviewed, 6/30, p.79
See Electrodes

Welding (Resistance):
Condenser positioning cuts time, 4/28, p.106
How to get more out of resistance welding control, 1/28, p.68
Jet cones seam welded, 2/11, p.111
Nonferrous tubing, ENG, process, 4/14, p.81
Spot welding, mobile unit, 4/14, p.117
Spot weld monitoring, ENG, 4/21, p.79
Spot welder-portable, IE, 5/26, p.144
Spot welder, speeds strapping, 6/16, p.152
Spot welding, Ryan Aeronautical, 3/17, p.91

Wheels:
Wheels—A $22 million industry, 3/10, p.88

Wire:
Lead wire error by temperature changes preventable, 3/3, p.123
Tooth decay tested by wire, ENG, 3/10, p.105

Wirebound Box Manufacturers Assn.
Military box spec., 4/28, p.109

Wire Rope:
Choker sling fitting, IE, 3/10, p.206
Supply, oil and gas wells, 1/14, p.37

XYZ

Zinc:
Scarcity, YC, 1/7, p.242
Zinc exhaustion exaggerated, ENG, 1/28, p.63

X-Ray:
Allis-Chalmers machine probes flaws, ENG, 3/3, p.75
Crystals use, inspection, ENG, 2/4, p.87
Diffraction charts, B, 2/4, p.203
Fluorescence analysis, ABC's pic., 5/12, p.64
Fluorescence analysis, nondestructive testing at shop level, 3/24, p.70
Fluorescence equip. checked, 2/4, p.126
Gages control thickness, 6/16, p.163
Hot radiography process, 6/30, p.98
Pipe line-Texas inspection, ENG, 1/28, p.63
Powder cameras, IE, 6/16, p.190
School sessions set, 2/25, p.105

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*, YC—*Yearbook Comment*

COMPANY INDEX

A

A & M Tool & Die Co. Inc.:
Expands. B. 1/7, p.3[illegible]

ACF-Brill Motors Co.:
Merger voted. 3/12, p.[illegible]2

Abbeon Supply Co.:
Demagnetizer. IE. 6/23, p.128

Ace Heat Treating Co.:
Expands facilities. 4/14, p.132

Ace Tool & Die Works:
Var. speed pulleys on heads. IE. 1/14, p.82

Acheson Colloids Co.:
Graphoid film cuts galling. 6/16, p.108

Acme Aluminum Foundry Co.:
Adds to plant. B. 4/21, p.163

Acme Finishing Tool Co.:
Chucker cone adapters ground for steel company. 2/11, p.85

Acme Mfg. Co.:
Abrasive belt for blade finishing. 6/9, p.92

Acme Metal Products Corp.:
Merges. B. 6/23, p.159

Acme Scientific Co.:
Monochromatic light. IE. 2/4, p.179

Acme Steel Co.:
Builds at Toronto. B. 1/14, p.115
Contributor. YC. 1/7, p.433
Floor surface reinforcement. IE. 3/3, p.152
Galvanized steel angle. IE. 2/25, p.128
Spot welder speeds strapping. 6/16, p.152
Wire stitching magazine. 3/3, p.107

Acme Steel Co. of Canada Ltd.:
Builds. B. 6/9, p.177

Acmor Conveyor Chain Co.:
Chain for conveyors. IE. 2/18, p.162

Aeromark Co.:
Air feed and ejector makes shells. IE. 4/14, p.150

Adamas Carbide Corp.:
Carbide grades charted. 4/28, p.117

Admiral Corp.:
Buys Molded Products. B. 2/11, p.171

Advance Steel Products Ltd.:
Sold. B. 1/14, p.119

Aero Bolt & Screw Co.:
Appoints distributor. B. 2/18, p.195

Aeroquip Corp.:
Baskets vitalize small parts handling. 4/21, p.83
Closes agency at Jackson. B. 2/11, p.175

Aetna-Standard Engineering Co.:
Buys division, National-Erie. B. 3/10, p.235

Aget-Detroit Co.:
Dust collector. IE. 6/23, p.134
Dust collector. IE. 2/25, p.121

Agaloy Tube Co.:
Merges with Shenango. B. 1/14, p.115

Ainsworth Mfg. Co.:
Metal framing racks up handling savings. 6/9, p.104

AiResearch Mfg. Co.:
Service expanded. B. 4/14, p.147
Watchmaker's lathe produces aircraft parts. 6/9, p.103

Air Reduction Sales Co.:
Contributory. YC. 1/7, p.301, 325, 361, 398
Gas cutter. IE. 2/11, p.135
Welders lightweight. IE. 2/18, p.153

Airmatic Valve Inc.:
Air control valve. IE. 2/11, p.147

Ajax Electrothermic Corp.:
Contributors. YC. 1/7, p.308, 313
Pressure casting furnace. IE. 4/14, p.165

Allegheny Ludlum Steel Corp.:
Buys site, Murphy's Flats. B. 1/28, p.117
Electric furnace heats calculated. 1/21, p.72
Hot extrusion press installed. 5/19, p.67
Manganese alloy cuts nickel use. 4/7, p.172
Manganese replaces nickel. 3/24, p.32
Renames div. B. 2/4, p.205
Silicon output [illegible]. 2/25, p.48
West Coast facilities described. 4/7, p.149

Allen Products Corp.:
Sol-Al bonds metal. IE. 3/17, p.136

Allied Chemical & Dye Corp.:
Barrett rebuilds plant. B. 2/11, p.173
Fire fighting sprinklers use foam. 4/21, p.107
Forms nitrogen div. B. 6/30, p.141
Reagent catalog. 2/4, p.112
Solvay divisions consolidate. B. 6/23, p.170

Allied Products Corp.:
Clinch nut tooling. IE. 1/21, p.96
Enlarges plant. B. 3/24, p.147

Allis-Chalmers Mfg. Co.:
Agents named. B. 3/3, p.183; 4/7, p.229; 4/21, p.167; 6/2, p.192; 6/9, p.180
Builds betatron. B. 6/2, p.191
Builds in La Porte. 4/14, p.67
Builds in Mo. B. 2/11, p.173
Casting business sold. B. 6/2, p.189
Contributor. YC. 1/7, p.372
Expands Springfield Wks. 3/17, p.58
Planer-mill installed. 3/31, p.106
Positioning table-welding. 2/11, p.94
Tricolite test plant, Carrollville, Wis. 4/7, p.86
X-ray machine probes flaws. ENG. 3/3, p.75

Alloy Hardfacing Co.:
Leaks welded. 6/23, p.118

All-State Welding Alloys Co.:
Flux for gas welding. IE. 6/2, p.162
Manual on welding methods. 4/21, p.114
Rods for welding aluminum. IE. 3/10, p.206

Alpha Corp.:
Lubricant, dead center. IE. 6/23, p.138

Alpha Tool & Supply Co.:
Self-setting clamps. IE. 2/25, p.131

Alsco Inc.:
NPA violation. 4/21, p.53

Aluminum Air Seal Mfg. Co.:
Installs extrusion press. 5/12, p.70

Aluminum Body Corp.:
Factory for Calif. B. 4/14, p.195

Aluminum Co. of America:
Aluminum coiled tube "Utilitube". 1/14, p.91
Auto aluminum uses. 5/19, p.75
Bids for auto jobs. 5/12, p.73
Book, Alcoa development. 3/31, p.113
Buys Roebling's wire facilities. 5/5, p.62
Coatings resist abrasion. 2/18, p.110
Contributor. YC. 1/7, p.389
Engines burn natural gas, ph. 5/12, p.61
Equipment more powerful for processing alum. 2/25, p.50
Expansion ups capacity. 1/14, p.18
Extrusion press for Lafayette Wks. 1/28, p.37; ENG. 2/25, p.75
German press installed. 5/26, p.51
Installs drop hammer. 5/12, p.139
Pittsburgh headquarters, ph. 4/14, p.126
Storm knocks out smelting lines. 6/30, p.36
Straightening machine, Lafayette extrusion press. ENG. 3/3, p.75
Wire fence gets alum. paint, pic. 1/14, p.26

Aluminum Ore Co.:
Slurry coating formula, iron pick-up minimized. 6/9, p.122

Alumiwal Corp.:
NPA violator. 4/21, p.53

Alvey-Ferguson Co.:
Machine cleans foundry flasks. IE. 6/9, p.144

American Boiler & Foundry Co.:
Changes name. B. 3/10, p.237

American Bosch Corp.:
Contributor. YC. 1/7, p.290

American Brake Shoe Co.:
American Forge div. plans West Coast operations. B. 4/7, p.231
Cleaning sand and scale from cast railroad wheel in 30 seconds. 4/7, p.176
Magnetic drum pulls iron from sand. 3/10, p.170

American Brass Co.:
Mechanized banding pays off. 2/25, p.99

American Broach & Machine Co.:
Broach sharpener. IE. 6/30, p.108
Contributor. YC. 1/7, p.313
Surface broaching machine. IE. 4/28, p.131

American Can Co.:
Closes factory. B. 4/7, p.229
Radioisotopes research traces chemical processes. 4/7, p.113
Stockton plant operation soon. B. 3/3, p.181
Tin plate coating measured. 1/21, p.66
To build plant, Harrisburg. B. 6/30, p.142

American Car & Foundry Co.:
Expands at Buffalo. B. 4/28, p.167
Sub-assemblies for B-47 jet. 3/3, p.49

American Cast Iron Pipe Co.:
Frassee adds tube line. 5/12, p.127

American Chain & Cable Co. Inc.:
ACCO Div. for castings. B. 4/7, p.227

American Chemical Paint Co.:
Aluminum sheet cleaning. 2/11, p.88

American Cladmetals Co.:
Bonding silver to stainless. ENG. 5/12, p.87
Copper cladding, new use. 5/26, p.120
Silver-clad stainless reported. 6/9, p.125

American Cyanamid Co.:
Book, zinc stearate as a lubricant. 6/23, p.118
Chemical sub. B. 4/14, p.193
Lubricants progress traced, ASLE meeting. 4/21, p.114
Steel matting for plant. 4/7, p.149
Storage system. 2/25, p.113

American Diamond Tool Co.:
Formed. B. 2/4, p.205

American Drill Bushing Co. Inc.:
Expands. B. 4/28, p.121

American Foundries Co.:
New name. B. 3/10, p.237

American Gas Accumulator Co.:
Merges. B. 3/3, p.185

American Helicopter Co.:
Adds plant. B. 2/18, p.195
Midget helicopter for Army. 3/17, p.119

American Hoist & Derrick Co.:
Crawler crane. IE. 4/23, p.127

American LaFrance Foamite Corp.:
Sells meter business. B. 2/4, p.207

American Laundry Machine Co.:
Buys Buffalo firm. B. 5/19, p.187

American Lava Corp.:
Booklet for anniversary. 3/3, p.113

American Locomotive Co.:
Business report. 3/17, p.60
Opens office. B. 5/19, p.190
Symposium, spectrographic analysis discussed. 5/26, p.87

American Machine & Foundry Co.:
Buys Leland Electric. B. 3/10, p.237
Buys Thompson-Bremmer. B. 4/7, p.229
Expands N. Y. plant. B. 2/25, p.157

American Machine & Metals Inc.:
Panel vent set. IE. 2/4, p.172

American Machinery Corp.:
RFC loan. 5/26, p.5[illegible]

American Metal Products Co.:
Pallet rack adapted to die storage. IE. 2/4, p.162

American Metallurgical Products Co.:
Moves plant. B. 2/11, p.171

American Optical Co.:

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Dark field microscopes, IE, 1/28, p.85
Desk-type metallograph, IE, 6/2, p.149
Goggle, plastic frame, IE, 6/30, p.111
Respirator hood, IE, 4/21, p.136

American Pulley Co.:

Lagging for conveyor pulleys, IE, 6/30, p.115

American Pullmax Co.:

Cutter trims bulky stampings, IE, 2/4, p.162
Moves, B, 3/3, p.183
Power feed cutting plate, IE, 2/11, p.144

American Radiator & Standard Sanitary Corp.:

Improvement program, IE, 3/24, p.149
Merges with Acme, B, 6/23, p.170

American Safety Razor-Kingsbury Corp.:

Contract at La Porte extended, B, 1/21, p.127

American Silver Co.:

Contributor, YC, 1/7, p.396

American SIP Corp.:

Viewing screen on miller, IE, 3/31, p.122

American Smelting & Refining Co.:

Agent named, B, 1/14, p.119
Forms Canadian company, B, 1/21, p.125

American Steel Foundries:

Elmes press for die quenching, 2/11, p.126
Pipeless press, 4/7, p.95
Press, multi-purpose, IE, 2/4, p.161
Reactivates Chicago armor shop, 4/21, p.66

American Welding & Mfg. Co.:

Contributor, YC, 1/7, p.380
Warren Machine a div., B, 1/21, p.125

American Wheelabrator & Equipment Corp.:

Abrasive-wet blasting, IE, 1/14, p.87
Airless blast for enamel base, 3/3, p.102
Booklet, blast cleaning continuous, 5/12, p.133
Blast cleaning cabinets use, 1/21, p.62
Contributor, YC, 1/7, p.410
Fume cooler system, 3/3, p.130

American Wood Products Corp.:

New facilities, B, 6/2, p.191

American Zinc, Lead & Smelting Co.:

Research lab., B, 2/25, p.155

American Zinc Refinery Co.:

Refinery added, Que., B, 6/23, p.169

Ampco Metal Inc.:

Appoints agent, B, 2/25, p.159; 4/14, p.197
Contributor, YC, 1/7, p.275

Anaconda Copper Mining Co.:

Labor unrest in Chile, 4/28, p.37
Ore concentration plant, Nev., B, 4/7, p.231

Anderson & Sons Inc.:

Badges made in 90 seconds, 4/7, p.158

Anderson Bros. Mfg. Co.:

Speedi-Balancer, IE, 2/18, p.162

Anderson Co., V. D.:

Line type purifier, IE, 3/24, p.123
Purifier, gas lines, IE, 1/28, p.85

Andrews-Alderfer Co.:

Rubber shapes bonded to metals, IE, 4/28, p.138

Annin Co.:

Control valves, IE, 4/21, p.139

Ansul Chemical Co.:

Moves fire extinguisher office, B, 3/17, p.169
Powder smothers metal fires, 4/7, p.162

Anthes-Imperial Co. Ltd.:

Buys Medina, B, 1/28, p.119

Apex Metal Products Corp.:

Goss casting process licensed, 6/2, p.66

Apex Smelting Co.:

Builds in Northwest, B, 6/16, p.219

Appleton Electric Co.:

Explosion-proof fixture, IE, 4/28, p.138

Applied Research Laboratories:

To buy equipment, B, 6/30, p.139

Arcair Co.:

Gouging, cutting torch, 1/28, p.90

Archer Inc., Fred C.:

Electrode stabilizer, IE, 5/5, p.174

Archer-Daniels-Midland Co.:

Oil stripping for metal coating, IE, 1/21, p.95

Arcola Foundry & Mfg. Co.:

Moves, B, 4/7, p.229

Arcturus Mfg. Corp.:

Adds drop-forge plant, B, 4/14, p.195

Argonaut Construction Co.:

Iron ore mill built, Vancouver, 6/2, p.65

Arlington Industries Inc.:

Chartered, B, 6/23, p.170

Arma Corp.:

Fire-control equipment, B, 5/26, p.173
Housing construction of rotating components simplified, ENG, 6/2, p.91

Armco International Corp.:

Bundy tubing processes, English plant, pic., 2/25, p.86

Armco Steel Corp.:

Acquires joint interest, Reserve Mining, 1/14, p.28
Chromium stainless (17) formed, 6/9, p.95
Cleans weld seams, new method, 6/23, p.76
Contributor, YC, 1/7, p.227
Expansions shelved, 4/28, p.45
Planned maintenance reported, 5/5, p.106
Sebald, W. W., addresses AISE on management leadership, 5/5, p.71
Stainless cutting charted, 6/30, p.99
Stainless machining book, 3/3, p.126

Armstrong Products Co.:

Thermosetting resin, IE, 5/19, p.163

Armstrong Rubber Mfg. Co.:

Beta ray checks rubberized cord from rolls, 4/7, p.162

Armzen Co.:

Sendzimir mill rolls ultrathin strip, 4/7, p.119

Aro Equipment Corp.:

Air tool catalog, 1/21, p.82

Aronson Machine Co.:

Turntable, IE, 6/2, p.162

Arrow Machines Co.:

Chartered, B, 2/4, p.207

Artisan Metal Works:

Organizes Clevecote, B, 6/23, p.167

Artkraft Mfg. Corp.:

Merges, B, 5/5, p.201

Arwood Precision Casting Corp.:

Buys Metalmold, B, 3/10, p.237

Asahi-Dow Ltd.:

Formed, B, 6/9, p.180

Askania Regulator Co.:

Agent appointed, B, 6/2, p.180
Branch, Phil., B, 2/4, p.205

Associated Development & Research Corp.:

Catalytic engine dev., 1/21, p.79

Associated Engineers:

Contributor, YC, 1/7, p.237

Associated Spring Corp.:

Contributor, YC, 1/7, p.234

Atlantic Polishing Mill:

Atlanticulator, 3/3, p.128
Expands facilities, B, 3/3, p.181

Atlantic Steel Co.:

Constructs warehouse, B, 3/31, p.157
Expands, B, 3/3, p.181

Atlas Car & Mfg. Co.:

Strip heaters warm hopper cars, 2/11, p.122

Atlas Industrial Corp.:

HiLift telescopic tower, IE, 5/26, p.140
Portable loading platform, IE, 3/3, p.149

Atlas Pipe Inc.:

Chartered, B, 6/16, p.219

Atlas Press Co.:

Lathe line redesign, IE, 6/23, p.127

Atlas Steel Casting Co.:

Order backlog, B, 1/7, p.573

Atlas Steels Ltd.:

Adds facilities, B, 2/11, p.171
Sendzimir unit installed, 3/17, p.57

Atlas Welding Accessories Co.:

Safety tongs, IE, 4/28, p.140

Austin Co.:

Moves, 2/18, p.72

Automatic Screw Machine Products Co.:

Opens Tex. headquarters, B, 4/28, p.169

Automatic Sprinkler Corp. of America:

Foam used for fire fighting sprinklers, 4/21, p.107

Automatic Temperature Control Co. Inc.:

Electronic control relay, IE, 5/5, p.172
Instrument, cantilever beam principle, IE, 1/14, p.87
Remote positioner, IE, 1/28, p.84

Automatic Transportation Co.:

Appoints agent, B, 3/3, p.183
Short truck lift, 6/23, p.89
Skylift Giant, loaded on ship, pic., 6/2, p.73

Automatic Valve Co.:

Valve, four-way, IE, 3/17, p.136

Automotive & Aviation Parts Mfrs. Inc.:

Changes name, B, 3/10, p.237

Austin Co.:

Contributor, YC, 1/7, p.251

B

BMC Mfg. Corp.:

Adds at Binghamton, B, 4/7, p.231

B & T Metals Co.:

Expands, B, 2/4, p.203

Babcock & Wilcox Co.:

Adds plant, Parris, Tex., B, 2/25, p.155
Extrusion process forms seamless tubing from stainless using glass as lubricant, 6/2, p.92
Moves offices, B, 5/19, p.189
Stainless tubing hot extruded, 1/21, p.79
Tube failures booklet, 2/11, p.120

Bader Co., Stephen:

Abrasive belt grinder, 6/9, p.92

Bailey Meter Co.:

Cable for control circuits, IE, 3/10, p.206

Bakelite Co.:

Book, plastics for foundry molds, cores, 1/14, p.64

Baker Bros. Inc.:

Unit machines mortar shells, IE, 4/7, p.192

Baker-Raulang Co.:

Contributor, YC, 1/7, p.428
Drum up-ender, truck attach., IE, 5/19, p.154
Drum upender, IE, 1/14, p.79
Lift ram handles coiled wire, IE, 2/18, p.156
Loading dock uses fork truck attach., 4/28, p.122
Mobile crane trucks, IE, 4/14, p.149
Sales efforts re-examined, 5/19, p.73

Baldwin-Lima-Hamilton Corp.:

Blades cast in stainless, 6/23, p.92
Co-operate on testing machine, 4/14, p.66
Fatigue tester redesign, IE, 4/14, p.149
Forms Construction Machinery div., B, 6/9, p.177
Lead wire error preventable, heating, 3/3, p.123
Planer-open throat for Wyatt Metal, 3/10, p.153
Portable air cleaners for welding operation, 6/23, p.116
Recorders for testing, IE, 1/28, p.84
Stress-relieving furnace installed, 4/7, p.167
Universal testing machine, IE, 1/21, p.94

Baltimore Porcelain Steel Corp.:

Merges with Artkraft, B, 5/5, p.201

Baltimore Steel Co.:

Adds to plant, B, 3/3, p.183

Balmar Corp.:

Precision disk grinder, IE, 5/26, p.140

Barber Colman Co.:

Buys Wheelco, B, 4/7, p.231

Bardons & Oliver Inc.:

Cutoff lathes, IE, 5/5, p.163

Barrows Porcelain Enamel Co.:

Ceramic coatings charted, 6/16, p.157

Barry Corp.:

Noise toned-down, 2/25, p.76

Barry - Wehmiller Machinery Co. Inc.:

Forms English company, 3/31, p.55

Bart Laboratories Inc.:

Nickel-aluminum bond, 3/31, p.85

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Basic Refractories Inc.:
Acquires Sierra Magnesite, B, 4/7, p.227
Contributor, YC, 1/7, p.307
Shipping, 2/25, p.51

Bassick Co.:
Swivel steel truck casters, IE, 3/17, p.136

Bauer & Black:
Waterproof tape, IE, 6/16, p.193

Bausenbach Inc., A. F.:
Expands, leases plant, B, 3/24, p.151
Expansion plans, B, 1/28, p.119

Bay Air Engineering Corp.:
Formed, B, 1/14, p.119

Bay State Abrasive Products Co.:
Sanding material improved, ENG, 6/2, p.91

Bearings Co. of America:
Contributor, YC, 1/7, p.282

Beaver Pipe Tools Inc.:
Universal nipple chuck, IE, 6/30, p.115

Beckman & Whitney Inc.:
Guided missiles, B, 3/3, p.183

Bede Industrial Products Inc.:
Appoints agent, B, 4/28, p.169
Hot paint spraying heater, 4/7, p.170

Behr Manning Corp.:
Plans plant, B, 4/14, p.184
Stain resistant masking tape, IE, 3/3, p.150

Bell Aircraft Corp.:
Buys Linde Air Products plant, B, 1/7, p.575
Ft. Worth plant opens, B, 4/21, p.165

Bell Telephone Laboratories Inc.:
Contributor, YC, 1/7, p.242
Transistor Army Signal Corps use, 3/3, p.108

Bellevue Industrial Furnace Co.:
Melting pot tilts hydraulically, IE, 3/31, p.121

Bellows Co.:
Air powered drill, IE, 2/18, p.159
Explosion-proof valve, IE, 3/17, p.111

Belmas Co. Inc.:
Formed, B, 6/9, p.180

Benbow Mfg. Co.:
Trolleys insulate conductors, IE, 3/31, p.126

Benchmaster Mfg. Co.:
Moves, B, 1/28, p.121
Small press for munitions jobs, 5/26, p.106

Benjamin Reel Products Inc.:
Extension cord reel for lathe, 5/26, p.132

Bendix Aviation Corp.:
Airborne starter production, B, 1/7, p.573
Buys Photo-Electric, B, 6/2, p.192
Magnesium foundry transfer to Navy, 6/9, p.65

Bendix Co.:
To build, B, 4/21, p.163

Bergen Pipesupport Corp.:
Constant support type hanger, IE, 4/7, p.196

Berkshire Laboratories:
Stroboscope unit, IE, 6/16, p.190

Besly & Co., Charles H.:
Changes name, B, 1/21, p.127

Besly Welles Corp.:
New name, B, 1/21, p.127

Best, Kellner & Rogers Machine & Welding Corp.:
Formed, B, 2/4, p.207

Bete Fog Nozzle Inc.:
Fog nozzle for large fires, IE, 3/31, p.128
Stainless fog nozzles, IE, 5/5, p.177

Bethlehem Pacific Coast Steel Corp.:
Bridge in Calif. erected, B, 4/14, p.197
Instrumentation improves quality of finished product in open-hearth operation, 6/30, p.90
Portable decking, aircraft carrier, 3/17, p.94
Production record, '51, 1/28, p.36

Bethlehem Steel Co.:
Bessemer converters discontinued, 5/12, p.63
Blast furnace at Lackawanna lighted, 4/7, p.86
Chromium plating process, 3/31, p.77
Contributor, YC, 1/7, p.246
1/7, p.246
Expands ore dock, B, 4/7, p.226
Expands to buy land at Baltimore, B, 6/30, p.139
Expansions record year, 3/3, p.50
Hydraulic press hot-forms railway car parts, 6/16, p.141
Iron ore mine, Morgantown, 2/18, p.69
Tanker contract, 2/25, p.51

Big Joe Mfg. Co.:
Adds fork lift line, IE, 3/10, p.200

Biggs Boiler Works Co.:
Giant cooler, pic., 4/7, p.229

Binks Mfg. Co.:
Expands Franklin Park, B, 5/12, p.193
Moves at Cleveland, B, 6/30, p.141
Opens warehouse, Dallas, B, 4/28, p.169

Birdsboro Steel Foundry & Machine Co.:
End roll cuts bearing wear, 5/19, p.189

Bjorksten Research Laboratories:
Opens new lab, B, 4/7, p.231

Black & Decker Mfg. Co.:
Moves L. A. office, B, 1/21, p.127
Opens Md. plant, B, 5/12, p.198
Packaging standardization, 4/21, p.82

Black Drill Co. Inc.:
Drill unit broad work range, IE, 2/25, p.126

Blackford Aircraft Co.:
Moves plant, B, 5/19, p.190

Black, Sivalls & Bryson Inc.:
Opens Calif. office, B, 1/21, p.125

Blade Mfg. Co.:
Expands plant, B, 2/25, p.159

Blaw-Knox Co.:
Clamshell teeth replaceable, 6/2, p.143
Contract from TC&I, B, 6/23, p.167
Milling machine, pic., Lewis Foundry, 6/2, p.64

Bliss Co., E. W.:
Booklet press facts, 4/28, p.106
Forging press line, IE, 4/28, p.131
Giant horizontal miller, pic., 1/21, p.82
Press for artillery shells, 3/17, p.119
Straightening press, IE, 3/24, p.107
Strip handling, pic., 2/18, p.94
Strip mill order, Brazil, B, 1/14, p.115
Toggle-drawing stamping press, IE, 2/18, p.151
Transfers sales office, B, 5/5, p.201

Bliss & Laughlin Inc.:
Expands, Harvey, Ill., B, 3/17, p.167

Bloom Engineering Co.:
Agents named, B, 4/28, p.171

Blue M Electrical Co.:
Mechanical convection oven, IE, 2/4, p.169

Blue Magic Chemical Specialties Co.:
Deburring barrel finishing compound, IE, 3/3, p.157
Barrel burnishing compound, IE, 5/19, p.158

Blum & Co. Inc., Julius:
Cutter-14 inch blade, IE, 1/21, p.88

Boeing Airplane Co.:
Bonded flexible coupling sealed for delivery, 1/24, p.86
Expands computers, B, 4/7, p.231
Helical carbide speeds cutting, 4/21, p.110

Boeckler Instrument Co.:
Micrometer nonrotating spindle head, IE, 5/19, p.158

Bohaico Inc.:
Opens warehouse, B, 3/19, p.233

Bohn Aluminum & Brass Corp.:
Salt bath for steel billets, pic., 6/16, p.101
Titanium research pool, 4/7, p.86

Boice-Crane Co.:
Drill press tensioner, IE, 3/24, p.107

Boiler Engineering & Supply Co.:
Automatic steam generator, IE, 1/28, p.88

Bolton Foundry:
Fire damage, B, 3/17, p.167

Bone Engineering Corp.:
Expands, B, 4/14, p.195

Borden Co.:
Shell molding exhibit, 5/12, p.146

Border Land Mining Corp.:
Formed, B, 6/23, p.167

Borg-Warner Corp.:
Forms div., B, 3/3, p.185
Ingersoll building furnaces, 5/26, p.58

Borman Engineering Inc.:
Formed, B, 1/28, p.121

Bos-Hatten Inc.:
Plant site, B, 5/26, p.176

Boston Gear Works:
Speed reducers, IE, 3/3, p.144

Bowser Inc.:
Expands refrig. facilities, B, 4/28, p.169

Brad Foote Gear Works, Inc.:
Gears spur aircraft stamping, pic., 4/28, p.87

Brassert & Co., H. A.:
Reorganized, B, 3/17, p.165

Bretford Mfg. Inc.:
Machine lamp, IE, 5/5, p.172

Briddell Co., Charles D.:
Stamping press, pic., 4/21, p.56

Bridgeport Brass Co.:
Inhibits dezincification, ENG, 2/4, p.87

Briggs Mfg. Co.:
Merger rumor, 2/11, p.68

Bristol Co.:
Open channel flow meters, IE, 5/26, p.146
Stainless arc welding expanded, 5/26, p.108

British Columbia Aluminum Co.:
Aluminum process, 2/25, p.51

Brooks Iron Co.:
Sold, B, 1/28, p.119

Brooks Oil Co.:
Contributor, YC, 1/7, p.458

Brooks Rotameter Co.:
Liquid, gas flow control, IE, 1/28, p.88
Multiple tube purge meter, IE, 2/11, p.147

Brown & Sharpe Mfg. Co.:
Automatic screw machine, IE, 6/9, p.143
Contributor, YC, 1/7, p.335
Gage inspection, 5/12, p.91
Micrometer (Intrimik) measures bores-holes, 4/28, p.138
Wheel truing attach., IE, 6/23, p.127

Brown-Wales Co.:
Adds to warehouse, B, 6/2, p.191

Breuer Electric Mfg. Co.:
Industrial vacuum cleaner, IE, 2/11, p.138

Brunner Mfg. Co.:
Business report, B, 3/10, p.237
Expands line, B, 6/23, p.170

Bruning Co. Inc., Charles:
Copyflex model 20, IE, 3/24, p.110

Brush Beryllium Co.:
Contributor, YC, 1/7, p.254

Brush Development Co.:
Amplifier for rack mounting, IE, 5/19, p.160
Preamplifier extends graphic range, IE, 6/2, p.149
Sold, 2/25, p.40, p.155

Bryant Chucking Grinder Co.:
Contributor, YC, 1/7, p.366

Bryant Machinery & Engineering Co.:
Contributor, YC, 1/7, p.359

Bucyrus Kettle Co.:
Sold, B, 4/14, p.193

Buda Co.:
Fork lift series, IE, 1/7, p.54

Budd Co.:
Contributor, YC, 1/7, p.385

Buffalo Forge Co.:
Air conditioner bulletin, 2/11, p.114
Contributor, YC, 1/7, p.436
To build, B, 4/7, p.229

Buffalo Meter Co.:
Output gains, meters, B, 3/10, p.233

Buffalo Pipe & Foundry Corp.:
Adds cupolas, B, 4/28, p.167

Buffalo Tool & Die Mfg. Co.:
Expands, B, 2/18, p.191

Buhr Machine Tool Co.:
Boring mill at Ann Arbor, pic., 4/21, p.100
Hydraulic drill, IE, 3/17, p.125
Tool processes tank parts, IE, 4/28, p.131
Trunnion machine works valve rocker arms, IE, 1/21, p.85

Buhl Sons:
Rust-Oleum agent, B, 4/7, p.231

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Bullard Co.:
Contributor, YC, 1/7, p.330

Burdsall & Ward Bolt & Nut Co.:
Davey addresses ASTE, bolt-nut sizes, 4/21, p.86

Burgess-Manning Co.:
Snubbers cut pipe pulsation, 4/28, p.82

Burrell Corp.:
Unit determines carbon content IE, 2/25, p.123

Burroughs Adding Machine Co.:
Compressed air mechanism handles adding machine parts, 6/30, p.80

Burt Mfg. Co.:
Fan ventilator, IE, 2/4, p.165; 4/23, p.130

Buschmann Co., E. W.:
Conveyor power unit, 6/16, p.164

C

C & H Supply Co.:
Identification device, IE, 5/12, p.166

CEC Instruments Inc.:
Organized, 6/16, p.220

C.E.M. Co.:
Spirol pin, IE, 2/4, p.174

Calabama Chemical Co.:
To build, B, 1/21, p.123

Calera Mining Co.:
Black Bird mine, 4/21, p.81

California Electric Power Co.:
Expansion program, 5/5, p.130

California Metal Enameling Co.:
Combines operations with Ryan, 4/28, p.114

Calumet & Hecla Consolidated Copper Co.:
Orlando office, B, 1/14, p.117

Cambridge Wire Cloth Co.:
Enlarges, B, 6/9, p.177

Camcar Screw & Mfg. Corp.:
Cold heading metal parts, 4/21, p.88

Cameron Can Machinery Co.:
Basic machines, pic., 1/21, p.38

Canada Iron Foundries:
Adds plant, B, 4/7, p.227

Canadair Ltd.:
Production up, B, 4/14, p.195

Canadian Flight Equipment Ltd.:
Formed, B, 2/18, p.191

Canadian Liquid Air Co.:
Nitrogen injection for desulphurization, 1/21, p.80

Canadian National Railways:
Rail line to open mining area, B, 3/24, p.147

Canadian Siempelkamp Ltd.:
To produce presses, B, 3/17, p.165

Canadian Steel Improvement Ltd.:
Plant dedicated, B, 3/10, p.233

Cannon Vibrator Co.:
Vibrator line added, IE, 3/10, p.204

Canton Cast Products Co.:
Load binders, IE, 3/3, p.157

Capitol Foundry Co.:
Buys site, B, 5/5, p.201
Sold, B, 3/3, p.181

Carbide & Carbon Chemicals Co.:
Texas expansion, 1/21, p.45

Carboline Co.:
Furan coating, IE, 6/9, p.153

Carborundum Co.:
AEC contract, B, 6/16, p.217
Contributor, YC, 1/7, p.334
Hub contact wheel, IE, 5/12, p.162
Meters gage moisture, 4/14, p.127
Nuclear gaging controls abrasive coating thickness, 6/9, p.96

Carborundum Metals Co. Inc.:
AEC contract for metals, 6/2, p.69

Cardwell Mfg. Co.:
Air friction clutch, IE, 5/19, p.160

Carlson Co.:
Spring tester, IE, 5/23, p.135

Carolina Steel & Iron Co.:
Book on operations, B, 3/10, p.237

Carpenter Steel Co.:
Alloy meets maintenance needs for machinery, 4/7, p.179
Contributor, YC, 1/7, p.234
Die steel hobbing, 2/18, p.142
Spark test guide, 4/14, p.117
Stainless segregating tests, 3/3, p.130

Castalloy Co.:
Expands operations, B, 2/25, p.155

Cast Optics Corp.:
Plastic sheets cover cab windows, 5/19, p.136

Caterpillar Tractor Co.:
Buys Trackson, B, 1/7, p.575
Diesel torque converters, 6/16, p.104
Purchase, conversion, foreign steel, 2/11, p.53

Ceco Steel Products Corp.:
Buys Sterling Windows, B, 3/31, p.155

Celanese Corp. of America:
Moisture proof film for packages, 3/10, p.151

Centinela Industrial Supply Co.:
Clamp trunnion, IE, 4/7, p.200

Central Iron & Steel Co.:
DPA loan considered, 2/4, p.52

Central Steel & Wire Co.:
Expanding, B, 2/4, p.203

Centrifugal Foundry Co.:
Sold, B, 2/4, p.203; 4/7, p.227

Centrifugal Investment Casting Co.:
Sold, B, 6/30, p.141

Century Products Co.:
Hydraulic lift, IE, 5/19, p.151

Cerium Metals Corp.:
Expands, B, 1/7, p.577

Chain Belt Co.:
Conveyors carry bulk materials at high temperatures, problems studied, 3/3, p.129
Moves, B, 5/12, p.193

Challenge Mfg. Co.:
Moves offices, B, 2/25, p.159

Chambersburg Engineering Co.:
Contributor, YC, 1/7, p.304

Chance Vought Aircraft Co.:
Skin splice fatigue test, 2/11, p.120

Chase Aircraft Corp.:
Bedford on DPPC, 5/12, p.63

Chase Brass & Copper Co.:
Brass grain size control in mfg. of jewelry, etc., 6/2, p.96
Heated billet to quenched tube process, pic., 6/30, p.79
X-ray gage control thickness, 6/16, p.163

Chatco Steel Products Ltd.:
Buys building, B, 1/28, p.121

Chelsea Fan & Blower Co. Inc.:
Belt-driven fan, IE, 6/16, p.188
Booklet, propeller fans, 4/7, p.180
Fan airfoil propellers, IE, 3/3, p.146
Fan, belt-driven, IE, 3/24, p.116

Chemical Construction Corp.:
Pure metals from ore concentrates, process, 5/26, p.76

Cherry-Burrell Corp.:
Inert arc welding cuts finishing costs, 6/23, p.95

Cherry Rivet Co.:
Builds plant, B, 3/17, p.165

Chesapeake & Ohio Railroad:
Bids called for equipment, 2/11, p.65

Chicago Bridge & Iron Co.:
Building award for AEC, 5/26, p.173

Chicago Hardware Foundry Co.:
Contributor, YC, 1/7, p.302

Chicago Metals Co.:
Consolidates with; B, 6/16, p.217

Chicago Metal Hose Corp.:
Anniversary, changes name, B, 2/4, p.205

Chicago Pneumatic Tool Co.:
Expands, Ft. Worth, 3/17, p.48
Meehanite license, B, 5/5, p.201

Chicago Vitreous Enamel Product Co.:
Contributor, YC, 1/7, p.404

Christiansen Corp.:
Forms Titanium Co. of America, 4/7, p.87

Chrysler Corp.:
Annual report, 3/24, p.53
Arsenal operation, 5/19, p.76
Colbert speaks in Detroit, 2/4, p.60
Contributor, YC, 1/7, p.424
Convertible tested, pic., 3/3, p.61
DeSoto carburetors weighed, pic., 6/23, p.58
DeSoto, fire dome engine, 2/18, p.80
DeSoto, production gaging at engine plant, 5/12, p.88
Dodge forges shells, pic., 3/17, p.56
Engines, hemispherical - shaped combustion chambers, 3/10, p.92
Factory tools reconditioned, 5/26, p.79
Merger with Briggs, rumor, 2/11, p.68
Tank gun range finders, bonding process, 6/23, p.122
Newark tank plant, machine tools installed, pic., 1/7, p.153
Personnel changes, 5/12, p.74
Plymouth, D. S. Eddins retires, 5/5, p.84
Styling new model, pic., 4/28, p.60
Tanks shipped, 5/12, p.64
Trenton engine plant, machines assembled, pic., 2/18, p.79

Cincinnati Cleaning & Finishing Machinery Co.:
Agent named, B, 5/26, p.176
Small parts finishing, IE, 6/23, p.127

Cincinnati Metalcrafts Inc.:
Packaging lathe tech., 6/23, p.112

Cincinnati Milling Machine Co.:
Book, milling facts, 1/14, p.56
Contributor, YC, 1/7, p.344
Cutting fluid uses, 6/23, p.75
License with Elox Corp., 3/31, p.51
Metal forming line, IE, 5/19, p.147
Moves Philadelphia office, B, 5/5, p.206
Pool orders cost, 2/11, p.64
Radioactive tracer testing, 6/16, p.146
Standard machines ease shortage, 3/31, p.79

Cincinnati Shaper Co.:
Shaper uses magnetic clutch, IE, 4/21, p.123
Strip handling, pic., 2/18, p.96

Clair Mfg. Co.:
Spray gun, IE, 4/21, p.134
Surface finishing machine, IE, 1/28, p.83

Clark Bros. Co. Inc.:
May buy railroad plant, B, 3/24, p.151

Clark Equipment Co.:
Movie, 5/5, p.124
Truck instrument panel redesigned, IE, 3/17, p.125

Clark Machine & Welding Co. Inc.:
Adds bldg., B, 3/3, p.185

Clarke Sanding Machine Co.:
Buys machine line, B, 2/11, p.173

Claymont Steel Corp.:
Expands for Navy work, B, 4/7, p.229

Clearing Machine Corp.:
Contributor, YC, 1/7, p.296

Cleaver-Brooks Co.:
Names agent, B, 3/24, p.151; 3/17, p.167; 3/10, p.235; 5/12, p.198

Clendenin Bros. Inc.:
Expands, B, 2/11, p.171

Clevecote Inc.:
Organized, B, 6/23, p.167

Cleveland-Cliffs Iron Co.:
Forms Humboldt Mining with Ford, 3/10, p.80
Iron ore stacker conveyor, pic., 6/9, p.98

Cleveland Crane & Engineering Co.:
Appoints Tramrail agent, B, 3/24, p.147
Contributor, YC, 1/7, p.43[illegible]

Cleveland Electric Illuminating Co.:
Buys acres, 6/16, p.60

Cleveland Graphite Bronze Co.:
Buys Brush Dev., 2/25, p.40; p.155

Cleveland Industrial Tool Corp.:
Complete project, B, 3/3, p.183

Clifford Mfg. Co.:
Bellows convolutions kit, 4/7, p.174

Climax Engine & Pump Mfg. Co.:
Sold, B, 3/24, p.151

Climax Molybdenum Co.:
Molybdenum production, pic., 4/21, p.80

Clingan & Fortier Inc.:
Opens branch, B, 5/19, p.189

Clinton Machine Co.:
Considers tie-in of electronic processes, 3/31, p.51
Metal disintegration process, 1/14, p.60

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Clover Industries Inc.:
Buys plant at Tonawanda, B, 3/24, p.151

Coastal Machine Works:
Report clarified, B, 4/28, p.167

Coating Products:
Metallic acetate samples, 3/3, p.163

Cogmatic Co.:
Armor plate casting shuffle, IE, 1/14, p.82

Coleman & Co., W. B.:
Contributor, YC, 1/7, p.251

Collins Mfg. Co. Inc.:
Adds electronic items, B, 6/16, p.139

Colonial Broach Co.:
Appoints agents, B, 6/16, p.217
Automatic broaching, 4/28, p.82
Contributor, YC, 1/7, p.362
Progressive broach, 4/7, p.174
Tool broaches tapered splines, 5/12, p.133

Colonial Bushings Inc.:
Expands plant, B, 3/10, p.235

Colonial Iron Works Co.:
Appoints agent, B, 3/17, p.168
Contributor, YC, 1/7, p.278

Colorado Fuel & Iron Corp.:
Buys Brooks firm, B, 1/28, p.119
Pueblo wire mill completion seen, 3/17, p.58
Rails engraved, 5/26, p.88

Colotrym Co.:
Add plant, B, 5/19, p.190

Colton Co., Arthur:
Automatic tube filler closer, IE, 1/28, p.88

Columbia Container Corp.:
Adds branch plant, B, 4/28, p.169

Columbia Steel & Shafting Co.:
Rotary tube straightener, 4/14, p.115

Columbia Tool Steel Co.:
Warehouse new, B, 1/21, p.123

Combustion Control Corp.:
Fireye programming control, IE, 6/23, p.140

Comfort Spring Corp.:
Expands, B, 5/5, p.201

Commander Mfg. Co.:
Drilling coolant table, IE, 3/31, p.124
Drilling unit, multi-angle, IE, 2/25, p.123
Three-spindle turret head, IE, 6/2, p.165

Commercial Iron Works:
Fire damage, B, 5/5, p.206

Commercial Marine Industries:
Organized, B, 1/14, p.117

Commercial Metals Co.:
Expands, B, 1/14, p.119

Commonwealth Engineering Co.:
Commercial research predictions, 4/21, p.43

Computer Research Corp.:
Moves, B, 1/21, p.125

Conax Corp.:
Packing glands, IE, 1/14, p.86
Moves, B, 1/21, p.125

Consolidated Gas Electric & Power Co.:
Expands, B, 3/3, p.185

Consolidated Machinery & Supply Co.:
Nonferrous cut-off saw, IE, 4/28, p.132

Connors & Davis Sales Corp.:
Markets oiler, IE, 3/3, p.139

Connors Steel Co.:
Atlanta office, B, 6/16, p.219

Conoflow Corp.:
Appoints agent, B, 5/12, p.193

Consolidated Edison Co.:
Grating for Astoria plant, B, 1/21, p.125

Consolidated Engineering Corp.:
Booklet, temperature readings, 1/21, p.80
Computing system, 3/31, p.95
Organizes instrument div., 6/30, p.229

Consolidated Machine Tool Corp.:
Vertical boring-milling machine for GE, 1/14, p.75

Consolidated Tube Corp.:
Adds bldg., B, 5/5, p.201

Consolidated Vultee Aircraft Corp.:
Atom-powered plane design, 2/25, p.40
Merger (K-F) pends, 3/31, p.60
Nose section launched, pic, 5/19, p.62

Continental Foundry & Machine Co.:
Tank hulls handled by welding positioners, pic, 6/2, p.88
Water alarm, IE, 1/7, p.556

Continental Gin Co.:
Machine tool subcontract, 4/14, p.68

Continental Machine Co.:
Cutoff pipe and tube, IE, 5/5, p.166

Continental Screw Co.:
Driver with removable bits, IE, 1/28, p.93

Continuous Metalcast Co.:
Moves, B, 2/11, p.175

Cooley Electric Mfg. Corp.:
Box furnace adds chamber sizes, IE, 1/21, p.96

Cooper Alloy Foundry Co.:
Buys Alloys in Cooperland, 2/4, p.124
MSA contract, 5/26, p.57
Stainless fittings, 6/16, p.168

Cooper Bessemer Corp.:
New Orleans branch, B, 3/10, p.237

Cooper Precision Products:
Expands warehouse, B, 4/14, p.195

Copper & Brass Sales Inc.:
A. S. & R. agent, B, 1/14, p.119

Copperweld Steel Co.:
Amortization grant for seamless tubing, 3/17, p.58
Warren plant expands for seamless tubing, 2/4, p.63; seeks certificate loan, 3/10, p.80

Cosa Corp.:
Carbide tool grinder imported, 6/16, p.156

Craig Bit Co.:
Sold, B, 3/24, p.147

Crafton & Knight:
Belt dressing, 6/16, p.157

Crane Co.:
Titanium field further explored, 3/31, p.49

Crompton & Knowles Loom Works:
Fatigue-testing machine, 2/18, p.97

Cro-Plate Co. Inc.:
Bench model chrome-plater, IE, 4/28, p.138
Expands Windsor plant, 4/28, p.82
Wet blaster, IE, 5/12, p.153

Cross Co.:
Adds facilities, B, 3/17, p.165
Intake manifolds processed, 6/23, p.124
Machine tool speeds tank parts, 6/9, p.98
Tool works exhaust manifolds, IE, 5/19, p.147
Tool works oil pump bodies, IE, 1/14, p.82
Transfer-matic boring-facing, IE, 3/17, p.125

Crown Can Co.:
Translucent transom, pic, 3/31, p.49

Crown Industrial Products Co.:
Rust inhibitor protects precision parts, IE, 6/2, p.160

Crown Metal Products Inc.:
Enlarges, B, 6/9, p.179
Opens machine shop, B, 2/18, p.193

Crucible Steel Co. of America:
Adds warehouse, B, 6/23, p.170
Moves offices, B, 3/10, p.233
Opens warehouse, B, 6/16, p.219
Scrap scandal uncovered, 6/2, p.64
Shipment damage-loss cited by H. H. Pratt, 4/14, p.88
Slag removed by tractor, 4/14, p.100
Suggestion plan winners photos, 2/11, p.54
Tank armor plate production, Harrison plant, 3/24, p.74
Wewel aide to Sawyer, 4/28, p.46

Culbertson Co., B. F.:
Agent for air conditioning, B, 4/14, p.1[illegible]

Cullen Mfg. Co.:
Magnetic die indicator holder, IE, 2/11, p.142

Cummins Diesel Sales Corp.:
Sells Chicago assets, B, 2/11, p.173

Curtis Universal Joint Co.:
Drill bit "Thunder-Twist", IE, 6/30, p.112

Curtiss-Wright Corp.:
May buy locomotive shops, B, 2/11, p.175
Plans expansion at Buffalo, 5/5, p.74

Custanite Corp.:
Flex-Flo safety hammer, IE, 3/31, p.128

Cyril Bath Co.:
Plant for Solon, O., B, 2/25, p.155
Tangent bender, IE, YC, 1/7, p.549
Titanium rings machined, 2/11, p.108

D

Daigle-Gaboury Inc.:
Monorail cable conveyor system, 5/5, p.140

Damascus Tube Co.:
Agents named, B, 6/9, p.180
Name new, B, 1/14, p.115

Dana Corp.:
Lagooning purifies wastes at Salisbury Axle Works, 4/14, p.98

Danly Machine Specialties Inc.:
Contributor, YC, 1/7, p.295
Piercing unit, IE, 3/3, p.140

David Ludwig Co.:
Permit granted, Tex., B, 2/4, p.205

Davie Shipbuilding & Repair Co.:
Tanker contract, B, 1/7, p.575

Davis Electronics:
Moves, B, 6/16, p.219

Davison Chemical Corp.:
Adds warehouse, B, 6/30, p.241

Dayton Rogers Mfg. Co.:
Die cushions, IE, 5/26, p.149
Piercing press, IE, 1/28, p.86

Dearborn Motors Corp.:
Marketing group, Ferguson settlement, 4/14, p.56

Decorated Metal Mfg. Co. Inc.:
Moves, B, 1/21, p.123

Deepfreeze Distributing Corp.:
Chilling machine, IE, 3/10, p.134
stabilization of steel by heating, ENG, 4/14, p.91

De Laval Steam Turbine Co.:
Forms subsidiary, B, 2/11, p.175
Meehanite process, pic, 2/25, p.102
Pump oil handling, 275 psi, IE, 1/28, p.84
Pump test costs reduced, 4/21, p.94

Delta-Star Electric Co.:
Expansion plan, B, 2/11, p.175

Deluxe Saw & Tool Co.:
Sold, B, 2/25, p.155

Denison Engineering Co.:
Contributor, YC, 1/7, p.460
Handy kit holds J.I.C. hydraulic key, 4/7, p.154
Oil hydraulic motor-pump, IE, 4/21, p.132

Despatch Oven Co.:
Welding oven dries electrodes, IE, 5/26, p.139

Detrex Corp.:
Corrosion resistant coating, IE, 1/21, p.95
Mineral spirits washer, one-man operated, IE, 3/10, p.134
Solvent-vapor degreaser, IE, 1/7, p.550
Vinoite plastic spray, IE, 3/3, p.152

Detroit Milling Cutter Co.:
Chip remover, IE, 4/14, p.165

Detroit Sintered Metals Corp.:
Brochure on powder metallurgy, 3/31, p.108

Detroit Stamping Co.:
Parts range brochure, 4/28, p.122

Detroit Steel Corp.:
Expands Portsmouth facilities, loan granted, 6/23, p.44
Portsmouth strip mill soon, 2/18, p.58

Detroit Steel Products Co.:
Calif. warehouse, B, 1/21, p.125

Detroit Steel Scaffold Manufacturers:
Steel scaffolding procurement, 2/18, p.68

Detroit Tap & Tool Co.:
Expands Cheboygan, B, 1/28, p.117

DeVilbiss Co.:
Book, spray paint, 6/30, p.100
Respirators added, 3/10, p.153
Spray operators, trained preferred, 3/31, p.109

Code: B—Briefs, ENG—*Engineering and Production News*, IE—*Industrial Equipment*, YC—*Yearbook Comment*

Spray service 5-5 p 140
Volume delivery material pump IE 3-31 p 119

DeVlieg Machine Co.:
Boring milling line added IE 3-24 p 108

DeWalt Inc.:
Metal cutting line IE 5-12 p 153

Di Machine Corp.:
Press stamps intricate parts IE 2-25 p 123

Dial Screw Products Co. Inc.:
Names agent Canada B 4-21 p 163

Diamond Alkali Co.:
Buys Spence processes B 6-16 p 217
Changes expansion plans B 5-12 p 193
Contract awarded B 3-24 p 147
Transfers export B 6-30 p 141

Diamond Machine Tool Co.:
Horizontal boring mill IE 4-23 p 123
Model 22M miller IE 3-24 p 108
Radial driller IE 6-30 p 163

Diecraft Inc.:
Adds space B 2-18 p 191

Dietert Co., Harry W.:
Automatic sand tester IE 6-2 p 134

Dietz Co., Henry G.:
Preselector times operations IE 4-7 p 196

Diez & Hynson:
Adds plant B 2-18 p 193

Disston & Sons Inc., Henry:
Furnaces revamped Tacony Pa 3-3 p 50

Distillation Products Industries:
Expo scheduled vacuum finish display planned 6-9 p 100

Diversey Corp.:
Cleansers prepare metal for finishing IE 5-5 p 172

Dixon Crucible Co., Joseph:
Anniversary B 5-26 p 178

DoAll Co.:
Book hand tools 3-3 p 118
Contributor YC 1-7 p 347
Super-Center withstands heat wear IE 2-25 p 131

Dodge Mfg. Corp.:
Overhead release IE 3-3 p 109
Shaft-mounted speed reducer IE 4-28 p 136

Doehler-Jarvis Corp.:
Contributor YC 1-7 p 307
Moves B 3-10 p 23

Doepke Mfg. Co., Charles W.:
NesTier bundling system IE 4-14 p 80

Dollinger Corp.:
Appoints agent B 3-17 p 165
Buys air filter business B 6-16 p 217

Dominion Bridge Co. Ltd.:
Bridge contract B 6-16 p 217

Dominion Electrohome Industries Ltd.:
Fire damage B 6-16 p 217

Dominion Steel & Coal Corp.:
Expands open hearths B 3-3 p 181

Donner-Hanna Coke Corp.:
Contributor YC 1-7 p 224

Donwil Co.:
Names distributor B 3-31 p 159

Doughty Laboratories Inc.:
Book case hardening 5-5 p 128

Douglas Aircraft Co. Inc.:
Contract to Weber Showcase B 3-31 p 155
Hydraulic press dev 6-9 p 100
Rehabilitates Navy plant B 5-12 p 193
Titanium added uses 6-16 p 73

Dow Chemical Co.:
Buys site Va B 1-28 p 119
Contributor YC 1-7 p 275
Forms subsidiaries B 4-21 p 127
Magnesium sales dept moved B 1-28 p 117
Mill rolls magnesium sheet ENG 4-14 p 91
Reactor power research proposal 5-12 p 70
Texas plant ingot expansion 2-4 p 71

Dow Corning Corp.:
Booklet What's a silicone? 5-12 p 118
Shell molding data 3-10 p 156

Drake Steel Supply Co.:
Office new Calif B 4-7 p 231

Dravo Corp.:
Award dock contract B 5-12 p 195
Cab conditioning line IE 4-21 p 127

Dray Mfg. Co.:
Adds to factory B 4-21 p 165

Drayer Hanson Inc.:
Buys Jackson Eng B 6-16 p 22

Dresser Industries Inc.:
Roots-Connersville a div 4-7 p 229

Du-Lite Chemical Corp.:
Phospray cold spray bonding solution 2-4 p 172

Du Pont de Nemours & Co. Inc., E. I.:
Neoprene coating report 3-3 p 97
Plans toxicology lab B 3-31 p 159
Pollution paper C A Gosline 3-10 p 165
Titanium output up 2-4 p 117

Durant Mfg. Co.:
Adds to plant B 4-14 p 197

Duro Metal Products Co.:
Drill press capacity upped IE 3-24 p 107

Dwyer Mfg. Co., F. W.:
Flowmeter direct reading IE 1-14 p 87

E

Eagle Signal Corp.:
Welding eases production costs 1-21 p 76

Eastern Brass & Copper Co.:
Expands warehouse B 6-9 p 179

Eastern Jenolite Distributing Co.:
British metal pretreating ENG 5-26 p 75

Eastern Stainless Corp.:
Arc melting furnace added 4-28 p 167
Arc melting furnace doubles ingot capacity 6-16 p 60

Eastern Stainless Steel Corp.:
Export agent named B 1-7 p 571

Eastern Tool Co.:
Brazing carbide tips 2-25 p 117

Eastman Kodak Co.:
Contributor YC R G Tobey 1-7 p 146
Gear quality book 5-19 p 136
Phillips gage 6-23 p 101
Vacuum metal-coating of plastics ENG 3-31 p 73

Easton Car & Construction Co.:
Furnace cars 3-31 p 106

Eaton Mfg. Co.:
Contributor YC T A Fleischmar 1-7 p 285

Ebasco Services Inc.:
Synthetic gasoline costs estimated 5-12 p 70

Ebert Electronics Co.:
Mercury plunger relay IE 4-28 p 93

Echo Machine Tool:
Formed B 1-14 p 117

Eclipse Fuel Engineering Co.:
Fly-Matic gas oil burner IE 3-31 p 127
Moves B 1-28 p 121

Economy Smokeater Inc.:
Unit controls boiler smoke 2-18 p 128

Edison Inc., Thomas A.:
Lab new B 1-7 p 229

Eddy Plow Works:
Sold B 2-25 p 155

Edward Valves Inc.:
Graphitization study published 6-16 p 170
Inspection time pared 3-3 p 78

Efficient Equipment Inc.:
Truck loader IE 4-7 p 191

Ekco Products Co.:
Forms foreign sales companies 3-31 p 55
Purchase offer of Republic Stamping B 5-5 p 204

Elastic Stop Nut Corp. of America:
Merges B 3-3 p 185

Electric Autolite:
Die lubricants 6-30 p 84

Electric Controller & Mfg. Co.:
Overload relays IE 4-28 p 143

Electric Products Co.:
Names agent B 4-28 p 167

Electric Regulator Corp.:
Regohm electric circuit controller IE 3-3 p 152

Electric Steel Treating Co.:
Organized B 1-28 p 117

Electro Manganese Corp.:
Adds exporter B 6-30 p 141

Electro Metallurgical Co.:
See Union Carbide & Carbon

Electro Refractories & Abrasives Corp.:
Plant planned B 3-10 p 233

Electrofilm Corp.:
Insulating varnish IE 4-28 p 86
Lube-Lok bonds diesel liners 1-21 p 65

Electroline Co.:
Choker sling fitting IE 3-10 p 206

Electro Mechano Co.:
Precision driller IE 6-30 p 101

Electronic Rectifier Co. Inc.:
Rectifier turns out 230-v DC IE 3-10 p 204

Elgin Sweeper Co.:
Clutch self-energizing IE 4-21 p 134

Ellicott Machine Corp.:
Adds to machine shop B 5-5 p 204

Elliott Mfg. Co.:
Flexible shaft unit drives IE 6-16 p 186

Elkay Mfg. Co.:
Sheet metal facilities offered 3-3 p 124

Ellfeldt Machinery & Supply:
Anniversary B 2-18 p 193

Elliott Co.:
Lubricator tube cleaners IE 1-7 p 552
Tube cleaners IE 4-21 p 131

Elox Corp.:
License with Cincinnati Milling 3-31 p 51

El Paso Natural Gas Co.:
Construction permit FPC 2-25 p 58
Gas pipeline Calif 5-12 p 71

Elwell-Parker Electric Co.:
Agent named B 6-9 p 180
Agent named B 4-14 p 195
Contributor YC C B Cook 1-7 p 168
Low-lift truck and crane IE 3-3 p 146
Overhead crane moves bulky loads IE 4-28 p 83

Emergency Steel Service Corp.:
Expands B 6-2 p 192

Emery Industries Inc.:
Sells plant to Schaible B 3-17 p 165

Emhart Mfg. Co.:
Electronic instrument measures press pressures 4-21 p 104

Empire Industrial Supply Corp.:
New name B 4-28 p 171

Empire Steel Products Co.:
Moves B 5-5 p 204

Emsco Derrick & Equipment Co.:
Adds plant B 1-7 p 571

Engineering Research Associates:
Camera detects flaws in bedrock 2-18 p 70

Enco Mfg. Co.:
Flexible electric light unit IE 5-19 p 160

Endicott Coil Co.:
Expands Binghamton B 3-17 p 169

English Electric Co. of Canada Ltd.:
Plans expansion B 5-19 p 180

Enos & Sanderson Co. Inc.:
Warehouse opened B 5-26 p 176

Enterprise Aluminum Co.:
To build Oneonta B 4-7 p 231
work starts 5-12 p 198

Enterprise Galvanizing Co.:
Centrifugal machine disposes excess zinc 6-9 p 129

Enthone Inc.:
Alkaline derusting process 3-14 p 75
Aluminum coloring 1-21 p 80

Entwistle Co., James L.:
Cable cutting shears IE 6-16 p 182

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*, YC—*Yearbook Comment*

Equipoise Controls Inc.:
Tachometer protected from overrange, IE, 6/2, p.160

Equitable Powder Mfg. Co.:
Enters equipment field, B, 6/30, p.139

Erico Products Inc.:
Electrode holder, IE, 3/31, p.151

Erie Forge Co.:
Changes name, B, 2/4, p.203

Erie Iron & Supply Co.:
Buys Bucyrus Kettle, B, 4/14, p.193

Erie Mining Co.:
Owners, 3/17, p.65
Taconite plant, Mesabi range planned, 2/25, p.51

Erie Railroad:
Station sold, B, 4/7, p.229

Ernst & Ernst:
McAnly advocates Lifo, 5/5, p.69

Ernst Leitz (Canada) Ltd.:
New instrument plant, B, 3/31, p.159

Erwood Inc.:
Electronic vibration tester, IE, 6/2, p.156

Esso Standard Oil Co.:
Catalytic cracking process, 3/10, p.160

Euclid Road Machinery Co.:
Body positioner, pic., 6/9, p.179

Eutectic Welding Alloys Corp.:
Electrode for cast iron, IE, 1/28, p.90
Electrode, gouging, chamfering, IE, 3/10, p.204
Leaflet, zinc die cast welded, 4/14, p.123
Manual details mine welding, 2/25, p.113

Evergreen Tool & Die Co.:
Organized, B, 1/7, p.571

Eversharp Inc.:
Buys Climax Pump, B, 3/24, p.151

Ex-Cell-O Corp.:
Blade finishing line expanded, IE, 6/2, p.154
Vertical boring machine, IE, 6/16, p.181

Exolon Co.:
Adds facilities, B, 2/11, p.173

F

Fabricant Steel Products Inc.:
Construction halted, Albany, B, 4/14, p.193

Fabricators Steel Corp.:
Plant completed, B, 3/10, p.233

Fageol Heat Machine Co.:
Portable furnace dual purpose, IE, 6/23, p.136

Fahralloy Co.:
Revises pricing, B, 1/21, p.123

Fairbanks Co.:
Structurals assured for foundry, B, 1/7, p.575

Fairbanks, Morse & Co.:
Model of mfg. plant, pic., 2/25, p.84
Pumps, pic., 4/14, p.75

Fairchild Engine & Airplane Corp.:
Aussies get bimetallic piston license, 2/25, p.115
Plant opened 1/1, B, 6/30, p.141

Fairfield Mfg. Co.:
Open house, gear plant, pic., 4/28, p.169

Famco Machine Co.:
Consolidates, B, 5/19, p.187

Fansteel Metallurgical Corp.:
Forms div., B, 2/25, p.155
Price cut on seamless tubing, 6/30, p.36
Tabletting press added, B, 5/19, p.187

Farrell-Cheek Steel Co.:
Rotoblast table for castings, 2/18, p.128

Fauver Co. Inc., J. N.:
Agent for Parker, B, 4/21, p.167
Bench checks light switches, IE, 3/17, p.129
Dayton branch, B, 3/10, p.235

Federal Foundry Supply Co.:
Core blowing machine, 6/23, p.121

Federal Machine & Welder Co.:
Stamping presses for aircraft, 4/21, p.96

Federal Press Co.:
Punch press redesign, IE, 3/31, p.120

Federal Products Corp.:
Film gaging methods, 6/30, p.86
Gaging electronic classifier, 5/12, p.80

Federal Telecommunication Laboratories Inc.:
Microwave wiring, 3/31, p.98

Federal Tool Corp.:
Mechanical die feeds, 3/17, p.86

Federal Tool & Mfg. Co.:
Expands, B, 3/3, p.183

Federated Metals Canada Ltd.:
Formed, B, 1/21, p.125

Felters Co.:
Unisorb pad installation use, 1/21, p.75

Fentron Steel Works:
Plans addition, B, 4/28, p.167

Fenwal Inc.:
Thermoswitch unit for degreaser, 2/18, p.138

Ferguson Co., H. K.:
Award from Hercules, B, 5/12, p.198
Award, Hooker Elec., B, 6/9, p.177
Buys Elliott process, B, 6/23, p.170

Ferguson Inc., Harry:
Lawsuit settlement, Dearborn Motors, 4/14, p.56

Ferro Corp.:
Factories at Nashville, B, 5/19, p.187
Firing temperatures controlled, 2/25, p.83
Plans to buy 50% interest in Wel-Met, B, 3/10, p.233; buys 50% interest, 3/17, p.59
Plans to buy 100% interest in Wel-Met, B, 4/28, p.171

Ferry Steel Products & Equipment Co.:
Anniversary, B, 3/24, p.151

Fine Organics Inc.:
Appoints agent, B, 4/7, p.227
Expands Lodi, N. J., B, 1/28, p.121

Firth Sterling Steel & Carbide Corp.:
Licensing considered, 3/31, p.51
Name changed, B, 5/12, p.193

Firth-Vickers Stainless Steels Ltd.:
Waste stream warms plant, 6/30, p.75

Fischer & Porter Co.:
Flow meter handbook, 4/7, p.180
V/A cell measures bypass flow, IE, 4/14, p.169

Fisher & Rudge:
Merges with Neblett, B, 4/14, p.197

Fisher Scientific Co.:
Combax combustion boats, IE, 2/4, p.176
Polisher features conical disk and belt drive, IE, 4/28, p.136

Fitzpatrick Engineering Co. Inc.:
Formed, B, 4/7, p.229

Fleck Inc.:
Sold, B, 4/21, p.163

Flett Organization, James:
Opens West Coast office, B, 1/7, p.575

Flexoid Conveyor Co.:
Belt conveyor, multi-use, IE, 4/28, p.132
Forms div., B, 2/25, p.159

Flexonics Corp.:
New name, B, 2/4, p.205

Flexrock Co.:
Agent named, B, 1/21, p.125
Concrete patch, IE, 5/26, p.144
Trowel-In, repairs floors, IE, 2/11, p.144

Flodar Corp.:
Patent application, atomic reactors, ENG, 5/12, p.87

Food Machinery & Chemical Corp.:
Buys Oakes, B, 1/14, p.119
Service pump line, IE, 6/16, p.184

Foote Mineral Co.:
Expansion plans, B, 6/9, p.177

Ford Motor Co.:
Air compressor, River Rouge plant, 3/3, p.102
Aircraft engines for Air Force, 4/7, p.89
Appeals for quotas, 4/28, p.59
Automatic drills propeller shaft, pic., 4/7, p.89
Chicago engine plant, drill pic., 4/28, p.171
Cleveland foundry manpower shortage, 6/30, p.62
Cleveland plant automation (Mirrors of Motordom report), 4/7, p.99
Cleveland plant, chips removal, 4/14, p.105
Engineering lab setup, 1/21, p.48
Engines, industrial, three new, 3/3, p.62
Expands Calif. plant, B, 2/25, p.157
Forms eng. dept., B, 4/21, p.163
Forms Humboldt Mining with Cleveland-Cliffs, 3/10, p.80
Jet engines, Wayne and Romulus plants, 2/11, p.58
Lincoln body assembled, pic., 1/21, p.48
Lincoln Capri model, 2/4, p.74
Lincoln-Mercury autonomy, 3/17, p.70
Lincoln-Mercury personnel changes, 6/30, p.62
Mercury viewed, 1/28, p.50
Models of plastic, 6/30, p.61
Moves at Washington, B, 4/14, p.197
Movie, Tomorrow meets today, 6/32, p.58
Ore carrier, *William Clay Ford*, keel laid, B, 4/14, p.193
P&W J-47 turbojet engines assembled at Chicago, Detroit, 2/4, p.64
Quota appeal, 4/14, p.78
Radiographic check, aircraft div., 6/9, p.129
Ranch Wagon model, 2/4, p.74
Tank order, Army Ord., 5/5, p.62
Tanks, T-48 order, 6/9, p.54
Transmission assemblies arc-welded automatically at Cincinnati, 4/28, p.74
Tube production, 4/14, p.78
Units, heater motor, core and blower wheel, pic., 1/21, p.33
Wasp engine tested, pic., 3/17, p.59

Ford Motor Co. of Canada Ltd.:
Contract, assembly plant, B, 3/3, p.181

Foremost Dairies Inc.:
Merger with Monarch voted, 5/12, p.52

Forker Corp.:
T-rail cuts weight, 6/9, p.100

Foster Wheeler Corp.:
Leases at Vulcan, B, 3/3, p.185
Shifts site of new plant, B, 4/28, p.167

Four States Machinery Co.:
Organized, B, 1/28, p.117

Foxboro Co.:
Ball valve, IE, 6/23, p.140
Measures surface temperature, IE, 6/9, p.150

Franklin Airloop Corp.:
Sold, B, 2/11, p.173

Franklin Electric Co. Inc.:
New plant, B, 6/30, p.139

Franklin Mfg. Corp., A. W.:
Sold, B, 2/11, p.173

Frasse & Co. Inc., Peter A.:
Quick-coupling stainless fitting, new, 6/30, p.89
Tube line expanded, 5/12, p.127

Freeman Coal Mining Corp.:
Hoist lift, 5/12, p.138

Freeport Sulphur Co.:
Portable plant, steel barge, pic., 2/25, p.50

Fresh'nd-Aire Co.:
Air conditioning output, 6/16, p.141

Fried Steel Mfg. Equipment Corp.:
Strip handling, pic., 2/18, p.95

Frontier Forge & Heat Treat Co.:
Organized, B, 1/7, p.573

Fruehauf Trailer Co.:
Plant built, Conn., B, 1/28, p.117

Fullerton Steel & Wire Co.:
Opens new office, B, 4/21, p.165

G

Gadsden Box Mfg. Co.:
RFC loan, 2/25, p.53

Gallagher-Kaiser Corp.:
Organized, B, 3/10, p.237

Gallaher Co.:
Power exhauster, IE, 4/14, p.149

Gardner Machine Co.:
Double spindle grinder for clutch plates, IE, 1/7, p.550

Garrett Corp.:
Plastic tooling, 1/28, p.66

Garvin Bros. Inc.:
Air-powered nut runner, IE, 3/31, p.126

Gar Wood Industries:
Excavator and truck crane, 6/9, p.125
Foundation borer, 6/23, p.98

Gas Machinery Co.:
Furnace design sales metals, 3/21, p.94

Gasway Corp.:
Strip handling, pic., 2/18, p.94

Code: B—Briefs; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Gay-Lee Co.:

Carbide commutator saw, IE, 4/28, p.140
Undercutting milling machine, IE, 1/28, p.84

General Automatic Products Corp.:

Expands, B, 5/5, p.204

General Cable Corp.:

Lock-out case, UEW, 6/30, p.35

General Controls Co.:

Moves div., B, 1/7, p.575

General Detroit Corp.:

Corrosion free extinguishers, IE, 1/14, p.88

General Electric Co.:

Adds transformer plant, B, 6/9, p.179
AEC authorizes atom reactor, 3/3, p.59
Annual report, 3/17, p.57
Apparatus payment terms modified, 2/4, p.63
Appliance setup revamped, Louisville center, 3/31, p.47
Atomic hydrogen welder prices cut, 3/24, p.32
Bearing torque test, 6/23, p.118
Beta ray gage, 4/7, p.162
Box type furnace forges dental tools, pic., 1/28, p.36
Buffalo Tube expands, B, 1/28, p.119
Bushing nozzle tips for arc welding, 2/4, p.144
Bushing reduces porcelain breakage, 5/26, p.123
Capacitors for electronics, IE, 6/2, p.160
Carboloy carbide trepanning, 3/31, p.74
Carboloy catalog, electronic controls, 5/12, p.144
Carboloy-CIO contract, 2/11, p.46
Carboloy expands magnet sales, IE, 6/23, p.169
Carboloy plant, Edmore, B, 5/5, p.203
Carboloy shear block has carbide inserts, 6/9, p.93
Carboloy strike ends, 2/25, p.49
Chip crusher, pic., 2/18, p.67
Cold light, "electroluminescence", ENG, 4/21, p.79
Construction, pic. (concrete in boring mill), 1/21, p.44
Converts Scranton plant to electronic tubes, B, 3/31, p.159
Copper mine hoist drive, 6/23, p.106
Cost-of-living wage boost, 3/3, p.47
Crystal production, B, 1/7, p.573
Defense suppliers: 17,000 firms, 2/25, p.53
Educational grants expanded, B, 4/7, p.229
Engineers honored, B, 2/11, p.171
Expands, Erie, B, 6/30, p.144
Expands silicone plant, B, 2/4, p.207
Field plotter, IE, 2/18, p.156
Film, fh motors, 6/23, p.77
Fluorescent, trigger start ballast, IE, 5/5, p.174
FHP motors, 3/31, p.85; 3/10, p.168
Gear motor bulletin, 4/28, p.99
Generator for Finland, pic., 2/25, p.57
Hydrogen causes embrittlement of forged compressor blades, 3/24, p.76
Instrument locates faulty combustion, ENG, 3/31, p.73
Jet accessories, B, 3/24, p.147
Jet blades fabricating, 3/3, p.110
Kaiser Steel gets equipment, 5/26, p.129
Lamp div., tiny bulb for aircraft use, 6/30, p.79
Lamps on 360 cycles, 2/4, p.136
Lay off at Erie, 4/21, p.44
Load break device, IE, 6/23, p.140
Locomotive governor improved, IE, 2/25, p.124
Magnetic converter, IE, 2/11, p.140
Mercury detector, IE, 5/26, p.135
Mercury lamps, IE, 4/14, p.169
Mica insulation process, 2/25, p.99; 2/25, p.57
Motor control center, IE, 1/14, p.82
Motor-generator stator, pic., suggestion award, 5/12, p.70
Motor shaft packed in dry ice, pic., 1/7, p.577
Oscillograph film holder, 6/30, p.99
Pittsfield adds bldg s, 5/5, p.155
Plating speed induction heating report, 2/11, p.129
Pyrometer, metal temperatures, IE, 4/7, p.187
Radiation detector bulletin, 3/3, p.80
Rectifier orders, 3/17, p.59
Rectifier type uses, book, 4/21, p.96
Rectifiers of germanium, IE, 3/3, p.150
Refrigerator price cut, 6/16, p.70
Rotating limit switch, IE, 2/4, p.172
Scranton plant re-equipped, B, 5/19, p.187
Soldering iron, IE, 4/21, p.134
Strike possible, 5/12, p.61
Switchgear development lab, 6/30, p.59
Telechron machinery installation, felt pad method, 1/21, p.75
Thermometers, IE, 1/28, p.88
Transformer weight reduced, 4/14, p.120
Transformer welder redesigned, IE, 3/10, p.194
Transformers, tank-wall bushings, IE, 6/30, p.108
Turbine rotor, pic., 3/10, p.80
Turbines, 4 million kw, 3/10, p.160
Utica electronics plant opens soon, B, 6/23, p.170
Varnish, electric insulating, IE, 3/17, p.141
Varnish, rubber phenolic, IE, 5/12, p.164
Vertical boring big machining, 1/14, p.75
Visual program, production tech., 6/30, p.96

General Extrusions Co.:

To build, B, 3/17, p.169

General Fireproofing Co.:

Plant addition, B, 3/10, p.233
Subcontract, 5/5, p.74

General Motors Corp.:

AC Spark Plug employment up, 2/11, p.68
Accounting price error, 4/28, p.59
Annual report, 3/24, p.53
Auto Show, scheduled, 5/12, p.74
Autronic-Eye, headlight control, 3/10, p.170
Big car-year, 1/28, p.50
Bonding method, 6/2, p.78
Book, plant safety, 4/7, p.170
Booklet, Precision—A measure of progress, 6/23, p.58
Buick aircraft machine tools, pic., 1/14, p.39
Buick coremaking machine, 2/11, p.92
Buick leases space, B, 4/14, p.195
Buick, machinery changes in sheet metal plant, 2/25, p.78
Buick, metal machining, ceiling hung radiator, 6/23, p.122
Buick tank torque transmissions, pic., 3/31, p.59
Buick, washer-tumbler speeds cleaning, deburring, 4/7, p.117
Cadillac-Cleveland tank plant, materials handling, 4/14, p.92
Cadillac packaging card system, Cleveland, 4/7, p.164
Cadillac price cut, 4/28, p.59
Cadillac subcontract system, Cleveland Tank plant, 2/11, p.59
Cadillac tank contract, 4/7, p.78
Chevrolet awards contract, B, 6/2, p.189
Chevrolet-Cleveland, pelletizing tank transmissions, 3/10, p.115
Chevrolet gets drills from French firm, 6/30, p.56
Chevrolet, new model shown, 1/21, p.47
Chevrolet plane parts, Buffalo, B, 3/31, p.157
Chevrolet, production gaging, 5/12, p.88
Chevrolet Tonawanda construction continues, B, 3/10, p.235
Chevrolet, waste treatment plant, 6/30, p.62
Contributor, YC, 1/7, p.244
Defense contract cut, Fairchild propellers, 2/18, p.58
Delco Dayton plant begun, 1/21, p.44
Diesel engine, 16-cylinder, ENG, 6/30, p.75
Diesel power in trucks, 1/28, p.49 & 50
Electro-Motive Div., Army locotive *Mrs-1*, 4/21, p.59
Fisher Body moves purchasing dept. to Cleveland, 6/16, p.81
Fisher Body subcontract suspension, 2/4, p.59
Frigidaire cuts prices, 6/2, p.56
GMC military trucks, pic., 3/31, p.50
Lacquer thinner, ENG, 3/24, p.67
McCuen reports on engineering progress, 6/2, p.136
Oldsmobile, headlight dimmer, 3/3, p.62
Packaging attention, 4/14, p.77
Personnel changes, 5/5, p.84; 5/12, p.74
Pontiac V-8 engine, 5/26, p.62
Proving ground paving, 5/26, p.62
Research Lab. Division:
  Bonding (coating steel and nonferrous metals with aluminum), 6/16, p.82
Research plant nears completion, 5/12, p.74
Scrap collected, 2/4, p.61
Steering hydraulic assist, pic., 2/4, p.73
Truck engine new, 5/26, p.116

General Motors of Canada Ltd.:

Adds truck plant, B, 4/7, p.227
Parts depot added, B, 6/2, p.192

General Refractories Co.:

Contributor, YC, 1/7, p.224

General Steel Castings Corp.:

Furnace cars used, 3/31, p.106
Mold sand electronically weighted and controlled, 2/18, p.110
Tongs handle Army tank turrets, 6/23, p.80

Generator Sales Co.:

Welding line, IE, 6/16, p.181

Gerrard, Steel Strapping Co.:

Contributor, YC, 1/7, p.430

Giddings & Lewis Machine Tool Co.:

Buys plant, 2/4, p.60
Contributor, YC, 1/7, p.340
Eight-position tool holder, IE, 3/3, p.146

Gilbert Associates Inc.:

Research on sewage treatment, 6/2, p.143

Gisholt Machine Co.:

Basic machines from Cameron Con, pic., 1/21, p.38
Book, balancing information, 3/31, p.109
Contributor, YC, 1/7, p.457
Subcontract, Birmingham, 4/14, p.68

Glasspar Co.:

Plastic car, pic., 3/10, p.91

Glidden Co.:

Titanium research pooled with Bohn Alum., 4/7, p.87

Globe Iron Co.:

Electric furnace plant added, 3/17, p.58

Globe-Union Inc.:

Canadian plant, B, 3/31, p.159

Glyco Products Co. Inc.:

Synthetic wax beads, IE, 6/16, p.193

Goddard & Goddard Co.:

Inserted carbide end mills, IE, 6/9, p.148

Goodrich Co., B. F.:

Rubber conveyor belt, iron mines, 2/4, p.138
Vibration reducers, bushings for tank track, pic., 2/25, p.53

Goodyear Aircraft Corp.:

Air Force Thunderjet, stabilizer, pic., 2/18, p.70

Goodyear Tire & Rubber Co.:

Builds at Cartersville, Ga., B, 3/24, p.151
Expands Clearwater mills, B, 6/9, p.182

Gorbett Bros. Steel Co. Inc.:

Formed, B, 2/4, p.203

Gottscho Inc., Adolph:

Marking device, IE, 6/23, p.133

Gould-National Batteries Inc.:

Maintenance chart, 4/28, p.124
Opens Monroe plant, 5/19, p.76

Govro-Nelson Co.:

Brass disks tapped and reamed, IE, 4/21, p.124
Machine drills brass balls, IE, 2/11, p.138

Graham-Mintel Instrument Co.:

Names agent, B, 1/21, p.127

Granite City Steel Co.:

Galvanized sheets, Hamilton reports, 4/21, p.168

Grant Co. Inc., George F.:

Machine grinds, finishes, IE, 4/7, p.187

Graton & Knight Co.:

Belting requirements catalog, 4/7, p.168

Grav-I-Flo Corp.:

Separator removes, grades chips, IE, 5/12, p.162

Graybar Electric Co. Inc.:

Agent named, B, 3/31, p.155

Great Lakes Carbon Corp.:

Plans expansion, B, 4/21, p.163

Great Lakes Steel Corp.:

Blast furnace, top pressure blowing, 3/3, p.84

Greenfield Tap & Die Corp.:

Reports business off, 3/31, p.38

Greenwich Mfg. Inc.:

Buys Eddy Plow, B, 2/25, p.155

Gregory Industries Inc.:

Skid tubes insulated, 2/18, p.101

Griswold Mfg. Co., F. T.:

Linear positioner, IE, 5/19, p.151
Optical dividing head, IE, 1/7, p.549

Grotnes Machine Works Inc., Charles:

Expands, B, 2/18, p.193
Moves, B, 5/12, p.193

Guide Co.:

Automatic packaging, IE, 2/4, p.166

Gulf Oil Corp.:

Contributor, YC, 1/7, p.463
Plant contracts, B, 2/25, p.159

Gulf Research & Development Co.:

Cutting tool, Hi-Jet oil and Hi-Jet lubrication, 1/21, p.70
Titanium machined, Hi-Jet coolant-lubrication used, 1/21, p.25

Gunnison Homes Inc.:

Military steel shelter plant, 4/7, p.90

Gustav Co.:

New name, B, 4/14, p.197

H

H-B Instruments Co.:

Buys new quarters, B, 6/9, p.180

H & B American Machine Co.:

Textile machine business discontinued, 3/10, p.70

HPL Mfg. Co.:

Cup expanders, IE, 4/14, p.169

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Hackett Machinery Co., J. Lee:
Cleveland branch. B. 3/10. p.235

Hagan Corp.:
Adds division. B. 6/16. p.220
Cyclic test systems at Orrville. 4/14. p.100

Haledy Electronics Co.:
Electronic pilot relay. IE. 3/10. p.125

Hall-Watson Co.:
Sells gray iron foundry. B. 3/17. p.165

Hallemite Mfg. Co.:
Pre-Kote setting cement for anchor bolts. IE. 1/14. p.88

Hall's Safe Co. Inc.:
Reorganized. B. 3/31. p.167

Hamilton Tool Co.:
Color in gear hobber. IE. 4/21. p.147
Gear hobber spindle assembly redesign. IE. 6/9. p.147
Screw tape drill. IE. 3/10. p.190

Hammond Iron Works:
Contributor. YC. 1/7. p.390

Hammond Machinery Builders Inc.:
Automatic polisher. IE. 6/9. p.139
Blade polishing machine. 6/9. p.94

Handy & Harman:
Brazing flux. IE. 4/28. p.116
Copper-silver brazing. IE. 6/2. p.100

Hanna Engineering Works:
Agent named. B. 1/21. p.125

Hannifin Corp.:
Air control valve. IE. 6/2. p.100

Hannon & Sons, E. J.:
Screw flanged fastener. 6/16. p.164

Hansand Corp.:
[illegible] named [illegible]. B. [illegible] Sold. B. 5/5. p.201

Hanson-Van Winkle-Munning Co.:
Contributor. YC. 1/7. p.407
Dipping baskets, bulletin. 4/28. p.122
Fiber brush abrasives in wheels. IE. 5/5. p.127
Silver plating without buffings. IE. 5/5. p.144

Harbison-Walker Refractories Co.:
Expands at Fairfield, Ala. B. 4/7. p.223

Harnischfeger Corp.:
Cab windows, plastic sheet covering. 5/19. p.136
Contributor. YC. 1/7. p.428
Machining time cut on complex weldments. 2/25. p.80
Opens Ill. plant. B. 6/30. p.144

Hardinge Bros.:
Adds plant. B. 6/30. p.144
Collets and feed fingers. IE. 3/24. p.116

Hartford Special Machinery Co.:
Super-Spacer eliminates [illegible] tables. IE. 2/4. p.176
Thread roller. IE. 5/5. p.168

Harvey Machine Co.:
Buys site. B. 1/28. p.122
Certificate of necessity. [illegible] 2/18. p.58

Hauserman Co., E. F.:
Plant, Cuyahoga Falls. B. 3/3. p.183
Production control system. 3/3. p.81

Hayes Mfg. Corp.:
Worker stops on GE subcontract. 2/18. p.31

Haynes Stellite Co.:
See Union Carbide & Carbon.

Hays Corp.:
Combustion control catalog. 3/10. p.154

Hecker Co., A. W.:
Boosts testing capacity. 4/7. p.156

Henry Flow Control Co.:
Buys check valve rights. 6/9. p.151

Hensel Green & Co.:
Tractor tows 70-ton loads. IE. 4/7. p.188

Heppenstall Co.:
Agent named. B. 4/14. p.193
Booklet, die blocks. 5/26. p.126
Booklet, steel properties. 5/5. p.128
Coil handling tongs for 17-8 steel. 3/3. p.84
Creep rupture test. 5/26. p.87
Eddystone plant reopened. 1/28. p.28; deactivated 2/11. p.58
Forge plant, govt. owned, reactivated. 6/16. p.79
Swift tongs. 6/23. p.90
Rupture test. 5/26. p.85

Herco Pipe & Supply Co.:
Opens warehouse. B. 4/21. p.163

Hercules Powder Co.:
Plant expanded. B. 6/2. p.195

Herlec Corp.:
Ceramic trimmer capacitors. IE. 5/5. p.152

Herpin & Evans Machine & Tool Co.:
Organized. B. 1/7. p.278

Hersey Mfg. Co.:
Expands [illegible]. B. 3/17. p.166

Hevi-Duty Electric Co.:
Furnace data booklet. 1/28. p.90

Hewitt-Robins Inc.:
Handling booklet. 3/3. p.112
Buys Kort-Pettit. B. 4/7. p.229
Division formed. B. 1/28. p.119
Moves. B. 2/18. p.193; 4/21. p.167

Hewson Co., John:
Appoints agent. B. 3/24. p.147
[illegible] tested. IE. 4/7. p.162

Hexacon Electric Co.:
Branding irons. IE. 4/7. p.185

Highie Mfg. Co.:
Steel Tube expands. B. 2/11. p.153

Hild Floor Machine Co.:
Vacuum portable cleaner. IE. 4/28. p.136

Hillman Co., C.:
Sold. B. 6/30. p.144

Hills-McCanna Co.:
Enlarges foundry. B. 6/23. p.161

Hinde & Dauch Paper Co.:
Book on shipping aid. 6/16. p.176
Defense packaging. 3/10. p.156

Hirschmann Co., Carl:
Offers Swiss tools. B. 1/14. p.115; 4/21. p.163
Opens Milwaukee branch. B. 2/25. p.159

Hobart Bros. Co.:
Arc welder, remote controls. IE. 1/28. p.85

Hobart Trade School:
Arc welding textbook. 4/7. p.174

Holcroft & Co.:
Contributor. YC. 1/7. p.310

Holmes & Bros. Inc., Robert:
Portable lab crusher. IE. 2/18. p.151

Honan Crane Corp.:
Contributor. YC. 1/7. p.454
Filter, web. IE. 3/17. p.125
Water-oil separator. IE. 1/21. p.85

Hooker Electrochemical Co.:
Buys site. B. YC. 1/7. p.571
Expanding. B. 2/4. p.203
Operates Tacoma plant. B. 6/2. p.194

Hoover Co.:
Fan-cooled motors enclosed. IE. 3/17. p.129
Motor condenser remounted. IE. 1/28. p.88

Hopax Electric Inc.:
Plug with locking device. IE. 2/4. p.172

Horton Steel Co.:
Contract. Ont. B. 6/2. p.192

Hotpoint Inc.:
Retools for civilian output. 6/16. p.72

Hough Co., Frank G.:
Sells sweeper line. B. 1/28. p.171
Tractor shovel. IE. 2/25. p.128

Houghton & Co., E. F.:
Contributor. YC. 1/7. p.423
Cutting fluid application. 6/23. p.73

Houghton Laboratories Inc.:
Hyflex gloves. IE. 2/4. p.174

Houston Oxygen Co.:
Pipeline delivery. 5/12. p.113

Houston Steel Fabricators Inc.:
Chartered. B. 6/24. p.180

Howard & Bullough American Machine Co.:
Acquired by Whitin. B. 3/31. p.155

Howard Foundry Co.:
Buys casting business. B. 6/2. p.189

Howe Scale Co.:
Catalog, condensed scale. 5/26. p.107

Hoyne Iron & Steel Co.:
Consolidates with. B. 6/6. p.217

Hubbell Metals Inc.:
Opens warehouse. B. 3/24. p.149

Huck Mfg. Co.:
Head rivet. IE. 2/4. p.174
Lockbolts for aircraft structures. 3/24. p.89

Hudson Motor Car Co.:
Carburetion system new. 6/2. p.78
Financial report. 4/7. p.108
New model. 1/21. p.47
Oster & Farry deal ends. 5/5. p.84
Subcontract. 5/5. p.74

Hufford Machine Works Inc.:
Bulldozer clamping cylinders. IE. 3/10. p.193
Straightening press for sensitive work. IE. 3/17. p.126

Hull & Co. Inc., R. O.:
Addition agent pump. IE. 1/7. p.530

Humboldt Mining Co.:
Cleveland-Cliffs, Ford dev. 3/10. p.80
Owners. 3/17. p.65

Hungerford Plastics Corp.:
Plastic cartridge liners. 2/11. p.125

Hydraulic Equipment Co.:
Name changes. B. 6/16. p.219

Hydraulic Press Mfg. Co.:
Anniversary. B. 6/9. p.180
Blankholder to Holland, pic. 5/12. p.110
Contributor. YC. 1/7. p.298

Hydraulic Press Co.:
Press to Thailand Air Force. 3/10. p.158
Scrap baler for Wheeling. 2/25. p.108

Hydro-Aire Inc.:
Bourdon tube switch. IE. 5/26. p.146

Hydroway Scales Inc.:
Crane scale dial. IE. 1/28. p.83

I

Illinois Gear & Machine Co.:
Buys property. B. 6/16. p.217; 4/28. p.167

Imhoff Co., Wallace G.:
Contributor. YC. 1/7. p.418

Impact-O-Graph Corp.:
Recorder traces shocks. 3/10. p.165

Imperial Belting Co.:
Acid resistant belting. IE. 3/31. p.131

Imperial Brass Mfg. Co.:
Automatic burnishing tool. IE. 6/9. p.145
Tube bender-combination. IE. 1/28. p.84

Independent Engineering & Drydock Co.:
New project. 3/17. p.57

Independent Pneumatic Tool Co.:
Impact wrench. IE. 3/24. p.120

Industrial Brownhoist Corp.:
Sand handling system. B. 2/25. p.155

Industrial Coating Ltd.:
Cement insulates baking vats. 4/7. p.152

Industrial Engineered Products Co.:
Bazooka torch. IE. 5/26. p.149

Industrial Engineering & Mfg. Co. Inc.:
Stacker and power hoister. IE. 1/21. p.86

Industrial Filtration Co.:
Cutting fluid methods. 6/23. p.73

Industrial Machine Works:
Organized. B. 3/10. p.237

Industrial Monorail & Conveyor Co.:
Sold. B. 2/11. p.171

Industrial Nucleonics Corp.:
Beta-ray gages control abrasive coating thickness. 6/9. p.96
Expands. B. 4/21. p.163

Industrial Organics Corp.:
Polyester laminated sheets. IE. 5/5. p.174

Industrial Products Co.:
Fiberglass safety helmet. IE. 6/9. p.153

Code: B Business ENP Engineering and Production News IE Industrial Equipment YC Yearbook Comment

Industrial Stamping & Mfg. Co.:
Sold, B, 6/30, p. 139

Industrial Supply Co.:
Organized, B, 6/16, p. 220

Industrial Tectonics Inc.:
Ballizing bulletin, 4/7, p. 156
Master ball sets, IE, 5/12, p. 164

Industrial Washing Machine Corp.:
Appoints agent, B, 2/18, p. 195

Industrial Wire Products Corp.:
Moves, B, 1/21, p. 127

Ingalls Iron Works Co.:
Memorial to R. I. Ingalls Sr., 6/16, p. 73

Ingalls Shipbuilding Corp.:
Oilers for Navy, B, 2/18, p. 193

Ingersoll-Rand Co.:
Compressor design rev., IE, 2/18, p. 151
Multiple nut runners, IE, 2/25, p. 123

Inland Steel Products Co.:
Earnings report, 2/4, p. 61
Expands, anniversary, 2/18, p. 69

Inter-Lakes Engineering Co.:
Machine packages, small parts, IE, 5/26, p. 138

Interlake Iron Co.:
Building permits, B, 5/26, p. 173
Builds ore storage bin, B, 3/31, p. 159

International Business Machines Corp.:
Antitrust suit, 1/28, p. 28

International Graphite & Electrode Corp.:
Graphite gougings, pic., 2/18, p. 195

International Harvester Co.:
Book: Heat treating boron steels; J. D. Graham, 5/12, p. 94
Book: What boron steels to use and why; H. B. Knowlton, 3/24, p. 84
Contributor, YC, 1/7, p. 248
Farm equipment shortage eases, 2/18, p. 77
Hoods protect tractors, 3/17, p. 112
Layoffs, 5/26, p. 40
LP gas for engines considered, 2/18, p. 79
Quality control system, 3/17, p. 92

International Nickel Co. Inc.:
ASM speaker, French, 5/5, p. 132
Booklet, austenitic stainless testing, 5/26, p. 126
Book, plating practices, 5/5, p. 152
Contributor, YC, 1/7, p. 252
Corrosion lab, Kure Beach, enlarged, 4/28, p. 49
Corrosion testing lecture published, 3/31, p. 104
Identifying metals for scrap, book, 2/4, p. 132
Nickel alloy books, 1/21, p. 82
Nickel mining methods, ENG, 5/5, p. 97
Pipeline for nickel process, 2/4, p. 148 and 3/31, p. 73
Research lab, B, 5/19, p. 187

International Rectifier Corp.:
Sealed selenium rectifiers, IE, 2/18, p. 164

International Steel Co.:
Fabricator facilities, 2/4, p. 114

International Telephone & Telegraph Corp.:
Acquires Kellogg, B, 4/7, p. 231

Interstate Drop Forge Co.:
Safety connecting links, IE, 1/21, p. 96

Iron Fireman Mfg. Co.:
Buys petro-oil business, B, 5/19, p. 187

Ironton Fire Brick Co.:
Refractory handbook, B, 1/21, p. 123

Irving Subway Grating Co.:
Grating order, B, 1/21, p. 125

Island Equipment Co.:
Booklet, products described, 3/31, p. 109

J

J & S Tool Co.:
Clamps for large planers, IE, 3/3, p. 154
Wheel dresser, IE, 3/24, p. 118

Jackson Co., Byron:
Arc welding pumps, 4/14, p. 94

Jackson Engineering Co.:
Sold, B, 6/16, p. 220

Jackson Iron & Steel Co.:
Rehabilitates plant, 5/12, p. 63

Jacobs Aircraft Engine Co.:
Helicopter redesign, B, 6/30, p. 141

Janette Electric Mfg. Co.:
Plant opens, B, 3/17, p. 169
Valve drives, 5/26, p. 129

Jaybee Mfg. Corp.:
To build, B, 4/14, p. 193

Jaxon Wire Products Co.:
Baskets for small parts handling, 4/21, p. 83

Jeffrey Mfg. Co.:
Forms div., B, 1/28, p. 121

Jensen Specialties Inc.:
Prefabricated electric oven, IE, 3/31, p. 120

Jergens Tool Specialty Co.:
Gets agency, B, 5/19, p. 190

Jerpbak-Bayless Co.:
Appoints agent, B, 6/2, p. 192

Johns-Manville Corp.:
Expands plant, B, 6/30, p. 142

Johnson & Co., Don F.:
Renamed, B, 4/28, p. 171

Johnson Service Co.:
Completes additions, B, 5/26, p. 175

Johnson & Son Inc., S. C.:
SCS-Wax, metal lubricant, IE, 3/17, p. 136

Johnson-Williams Ltd.:
Combustible gas alarm, IE, 2/18, p. 162

Jones & Lamson Machine Co.:
Contributor, YC, W. J. Grimm, 1/7, p. 374

Jones & Laughlin Steel Corp.:
Coal pusher, pic., 1/7, p. 573
Coke oven contract, B, 3/17, p. 165
Bessemer grades disappearing, 5/12, p. 63
Furnace restores carbon, 3/31, p. 102
Hot extrusion (Ugine-Sejournet), 4/28, p. 46
Iron ore dust recovered from sludge, pic., 1/14, p. 29
Iron ore explored, Ont., 4/21, p. 57
Planned maintenance, 5/5, p. 106
Steel shipments, 1950-51, 4/21, p. 56
Trucks made of Otiscoloy, pic., 6/30, p. 142

Joseph Co., David J.:
Absorbs Wolf & Co., B, 1/28, p. 121

Joy Mfg. Co.:
Buys Craig Bit, 3/24, p. 147
Oxygen generator, IE, 4/7, p. 188

Judson Steel Corp.:
Expansions halted, 4/28, p. 45

Junior Steel Co.:
Expands warehouse, B, 6/30, p. 139

Justrite Metal Products Inc.:
Buys plant, B, 1/21, p. 127

K

KHP Milwaukee Steel Co.:
Renamed, B, 4/21, p. 167

KSM Products Inc.:
Stud welding handbook, 4/7, p. 168
Welding equip. upkeep book, 3/10, p. 148

Kaddis Screw Products Inc., A. G.:
Plans expansion, B, 1/28, p. 117

Kaiser Aluminum & Chemical Corp.:
Chalmette plant near completion, 3/17, p. 59
Chemically treated paper prevents water staining, IE, 3/3, p. 152
Electrical equip. order with Westinghouse, 6/2, p. 75
Extrusions, pic., 2/11, p. 64
Fluorspar processing mill, Nevada, 2/25, p. 40
Halethorpe plant for alum. extrusions, 3/24, p. 32
Installs equip., Md., B, 3/3, p. 181
Opens branch, Birmingham, B, 6/2, p. 192
Spot testing aluminum alloys, 1/28, p. 67
Stretcher for processing aluminum, 2/25, p. 50

Kaiser-Frazer Corp.:
Aircraft engine, 2/18, p. 79
Aircraft engine assemblies, pic., 4/7, p. 176
C-119 Fairchild Packet, pic., 1/7, p. 158
Congressional attacks, 3/31, p. 59; 6/2, p. 78; 6/23, p. 58
Henry J changes, 3/3, p. 62
Henry J price cut, 4/28, p. 59
Merger (Convair) pends, 3/31, p. 60
Model design, 3/17, p. 70
Separates divisions, 6/16, p. 82
Tools unloaded at Dowagiac, 2/18, p. 138

Kaiser Steel Corp.:
Expands at Fontana (furnaces, ovens), 3/10, p. 80
Expands at Sunnyside, Utah, B, 3/31, p. 157
GE equipment at mill, 5/26, p. 129
Sells acres to Koppers, B, 2/11, p. 175
Steel per person, '51, report, 6/2, p. 65
Willow Run defense work divided, 3/17, p. 60

Kane & Roach Inc.:
Strip banding, pic., 2/18, p. 91

Karbide King Tool Corp.:
Sold, B, 2/25, p. 155

Kaydon Engineering Corp.:
Bearings, ultra-thin, 6/16, p. 156

Kaynar Mfg. Co. Inc.:
Floating anchor nut, IE, 5/12, p. 166
Gang channel locknut fastener, IE, 2/4, p. 174

Kearney & Trecker Corp.:
Contributor, YC, 1/7, p. 366
Copy milling machine, electric eye, 4/14, p. 102
Drill press line, IE, 4/23, p. 130

Kearsarge Tool & Mfg. Co.:
Vise and angle plate, IE, 6/16, p. 186

Keithley Instruments:
Power frequency amplifier, IE, 4/21, p. 123

Kelite Products Inc.:
Steel, iron phosphatizer powder, IE, 1/28, p. 93

Keller Machine Co., J. A.:
Expands, B, 3/17, p. 165

Kellogg Co., M. W.:
Paducah, Ky., piping contract, 1/21, p. 38

Kellogg Switchboard & Supply Co.:
Sold, B, 4/7, p. 231

Kelly Reamer Co.:
Names agent, B, 3/24, p. 149

Kemp Mfg. Co., C. M.:
Metal loader, IE, 6/16, p. 184

Kennametal Inc.:
Contributor, YC, 1/7, p. 252
Kennamill cutter, IE, 3/3, p. 157
Macro builds, B. C., B, 3/31, p. 159

Kennecott Copper Corp.:
Expansions, Ruth copper mine, 3/17, p. 59
Moves, B, 2/4, p. 205

Kerlow Steel Flooring Co.:
Tote box handles hot forgings, IE, 2/18, p. 153

Kidde & Co., Walter:
Chucking machines installed, 2/11, p. 117
Extinguishing systems, packaged dioxide, IE, 4/21, p. 139
Erects building, B, 3/17, p. 169
Opens office, B, 5/19, p. 187
Portable fire extinguisher, IE, 3/24, p. 120

Kidde Mfg. Co. Inc.:
Plans N. J. plant, B, 6/2, p. 191

Kidde Nuclear Laboratories Inc., Walter:
Forms private atom lab, 4/21, p. 52

Kilbourne & Jacobs Mfg. Co.:
Trailer, heavy-duty, IE, 5/26, p. 142

Kingsbury Machine Tool Corp.:
Agent named, B, 6/30, p. 139

Kingston Conley Div.:
See Hoover Co.

Kinoshita & Co. Ltd.:
Organized, B, 6/9, p. 179

Klaas Machine & Mfg. Co.:
Marking-cutoff machine, IE, 1/14, p. 86

Klemp Co., William F.:
Expansion program, B, 1/21, p. 125

Knapp Mills Inc.:
Clad-steel pipe supports, 6/23, p. 115

Knickerbocker Co.:
Tractor model added, IE, 3/31, p. 122

Knight Models Inc.:
Model of Fairbanks plant, pic., 2/25, p. 84

Knight Plating Co.:
Plating, "white brass" technique, 2/11, p. 67

Koch Mfg. Co., H. R.:
RFC loan, 2/25, p. 53

Kocour Co.:
Electronic thickness tester, IE, 6/16, p. 184

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Koehring Co.:
Distributors, B, 4/14, p.197
Subsidiary formed, B, 6/23, p.179

Kold Hold Mfg. Co.:
Platecoil, Btu capacity, 4/14, p.111

Koppers Co. Inc.:
Acquires plant, B, 2/18, p.191
Buys plant site from Kaiser, B, 2/11, p.175
Buys storage space, B, 3/3, p.181
Drops auto rings, B, 3/31, p.155
Gas from coal, 2/25, p.75
J & L contract, coke ovens, B, 3/17, p.165
Research program, B, 2/4, p.207
Revises operations, B, 5/5, p.201

Korb-Pettit Wire Fabrics & Iron Works Inc.:
Sold, B, 4/7, p.229

Korhumel-Heffron & Preiss Steel Co.:
Changes name, B, 1/14, p.115

Kota Meters Inc.:
Electronic surface comparator, IE, 6/30, p.104

Kraft Chemical Co.:
Forms Kaynide div., B, 3/24, p.149

Kropp Forge Co.:
Forges titanium, 3/3, p.50
Renames subsidiary, B, 3/24, p.151

Kropp Steel Co.:
New name, B, 3/24, p.151, 4/21, p.163

Kuhlman Electric Co.:
Buys transformer firm, B, 6/23, p.167

Kurt Orban Co. Inc.:
East German machine tool builders report, 3/24, p.49
Jig borer, IE, 2/25, p.123
Moves offices, B, 2/18, p.195
Precision thread grinder, IE, 5/5, p.161
Shaping machines, B, 2/25, p.159
West Coast branch, B, 6/9, p.180

Kwik Mix Co.:
Power driven lift attachment, IE, 3/24, p.114

L

L & L Mfg. Co.:
Pyrometer, IE, 4/28, p.138

Labelon Tape Co.:
Tape for circuit data, 6/23, p.92

Labquip Corp.:
Compressor tests small parts, IE, 2/11, p.136

Laclede Christy Co.:
Rebuilds plant, B, 3/10, p.235
Refractory failure, spalling vs disintegration, 6/9, p.89

Ladish Co.:
Contributor, YC, 1/7, p.292

La Favorite Rubber Mfg. Co.:
Rubber lining for pipe, 6/23, p.[illegible]

Lake Erie Engineering Corp.:
Die casting line, IE, 4/7, p.187

Lakey Foundry & Machine Co.:
Changes name, B, 3/10, p.237

Lamson Corp.:
Blower surge, design curbs pulsation, 3/3, p.86

Landis Machine Co.:
Contributor, YC, 1/7, p.332

Landis Tool Co.:
Contributor, YC, 1/7, p.436
Jet blade tip grinder, IE, 1/14, p.79

Lange Lift Co.:
Vertical lift, IE, 5/5, p.164

LaPine & Co., Arthur S.:
Chicago plant, B, 5/19, p.189

Lapointe Machine Tool Co.:
Anniversary, 5/12, p.116

Larrimore Sales Co.:
Light for inspection, IE, 1/28, p.90

Latrobe Electric Steel Co.:
Appoints agent, B, 3/3, p.181
Name changed, B, 5/12, p.198

Lava Crucible Co.:
Name changes, B, 4/14, p.193

Lawrence Machine Co.:
Adds facilities, B, 4/21, p.167

Leake Stamping Co.:
Press installed, pic., 6/23, p.95
Stampings formed faster, 2/4, p.90

Lear Inc.:
Expands West Coast, B, 2/18, p.195

Lebanon Steel Foundry:
Charts cover casting materials, 4/7, p.152
Contributors, YC, 1/7, p.304-7

LeBlond Machine Tool Co., R. K.:
Contributor, YC, 1/7, p.350
Jet machining special lathes, 2/11, p.86

Lee Rubber & Tire Corp.:
Agent named, B, 5/5, p.206

Lee Wilson Engineering Co. Inc.:
Whitten reports on single-stack annealing furnace, AISE meeting, 5/12, p.98

Leeds & Northrup Co.:
Atlanta office, B, 2/4, p.207
Buys land, B, 6/2, p.192

Leland Electric Co.:
Sold, B, 3/10, p.237

LeMaire Tool & Mfg. Co.:
Machine works cylinder blocks, IE, 2/18, p.153

Lempco Products Inc.:
Hydraulic portable crane, IE, 2/4, p.170

Lenkurt Electric Co.:
Punch press for powdered iron cores, 4/7, p.149

Leschen & Sons Rope Co., A.:
Moves at N. Y., B, 5/26, p.176

Leslie Co.:
Valve, double-seated, IE, 5/19, p.163

Leslie Welding Co.:
Honing press, IE, 6/9, p.139

Lewis Foundry & Machine Div.:
See Blaw-Knox Co.

Lewis Machine Co.:
Heating unit, IE, 6/30, p.110

Lewis-Shepard Inc.:
Contributor, YC, 1/7, p.428

Lewis Welding & Engineering Co.:
Mobile slitting machine aids warehouse, 1/28, p.45

Lincoln Electric Co.:
Contributor, YC, 1/7, p.380
Electrode surfaces worn cone adaptors, 2/11, p.85
Incentive system vindicated by U. S. Tax Court, 4/7, p.78
New plant ideas, article by R. Hall, 2/4, p.92
Welding training, 4/28, p.109

Lincoln Park Industries Inc.:
Abrasive grinder-polisher, IE, 3/24, p.113

Linde Air Products Co.:
Book, jet-pierce mining, 1/14, p.56
Book, sigma welding, 4/28, p.117
Contour welder, semiautomatic, IE, 1/28, p.86
Contributors, YC, 1/7, p.227, 230, 262, 384, 386, 402, 434
Cylinders returned, lower price, ENG, 5/5, p.97
Nickel-bronze gear defects corrected, 4/7, p.162
Powder cutting, 6/16, p.141
Roller composition stationary, pic., 3/31, p.80
Taconite jet piercing machine, 6/30, p.89

Link Aviation Inc.:
Leases building, B, 3/17, p.169

Link-Belt Co.:
Book, mechanized foundry, 5/12, p.130
Davidson reports on salesmen, 6/9, p.72
Orinoco awards contract, B, 3/10, p.233
Welded pulley, pic., 6/16, p.170

Link Engineering Co.:
Pneumatic spring tester, IE, 4/7, p.187

Lintern Corp.:
Moves, B, 3/31, p.155

Lion Mfg. Co.:
Electronic detects vibrations, 6/2, p.99

Lionel Corp.:
Sales high, 4/28, p.48

Little Inc., Arthur D.:
Contributor, YC, 1/7, p.223
Moves mechanical div., B, 6/23, p.170
Metals worked in frigid temperatures, ENG, 6/30, p.75

Lobee Pump & Machinery Co.:
Adds plant, B, 2/4, p.207

Lock Joint Pipe Co.:
AEC plant, B, 3/3, p.183

Lockheed Aircraft Corp.:
Adds building, Ga., B, 6/30, p.141
Fatigue test, bruising stretcher-compressor used, 3/10, p.162
Jet trainer T-33, wings attached, pic., 1/21, p.36
Outside production plan, 1/21, p.39
Planes pic., 5/5, p.206
Plastic toolmaking, ENG, 1/28, p.63
Strength-tester, pic., 3/10, p.82

Lodge & Shipley Co.:
Contributor, YC, 1/7, p.372
Expands, B, 3/3, p.183
T-lathes, jet machining, 2/11, p.86

Logan Engineering Co.:
Lathe, 11-inch swing, IE, 4/7, p.191

Lombard Corp.:
Extrusion press design, 5/12, p.70

London Chemical Co.:
Flux for soldering, IE, 5/12, p.169
Wire strippers, IE, 6/2, p.165

Lone Star Steel Co.:
Expansion, asks loan, 3/10, p.80
Expansion-Daingerfield wants full write-off privileges, 5/26, p.58
Signs ore contract, B, 6/2, p.189

Longren Aircraft Co.:
Stretch-flattening machine, 5/12, p.142

Lukens Steel Co.:
Moves cargoes, pic., 6/23, p.85

Luria Engineering Corp.:
Award, Smith Co., B, 5/12, p.198
Designs for Ferro, B, 5/19, p.187
Railroad plans service shop, B, 1/28, p.121
Steel bldg. for International Graphite, B, 6/2, p.191

Luscombe Airplane Corp.:
Adds space, B, 1/21, p.123
Plant expansion program, B, 2/25, p.157
Plant improvements, pic., 3/24, p.44
Rudders B-36 delivery, 2/11, p.57

Lyon Metal Products Inc.:
Booklet, 4/7, p.168

M

Macwhyte Co.:
Contributor, YC, 1/7, p.237

Magline Inc.:
Safety tongs, IE, 2/18, p.167

Magna Engineering Corp.:
Multiple drilling, 4/21, p.93

Magnaflux Corp.:
Contributor, YC, 1/7, p.453

M.P.A. Co.:
Knurler, hand operated, IE, 2/25, p.128

MacDermid Inc.:
Laminated fiberglas tanks, IE, 6/9, p.148

Mackenzie Walton Co.:
Rotary straightener, 3/3, p.133
Straightener meets seamless tube spec., 4/28, p.92

Mackintosh-Hemphill Co.:
Drill Bit, agents, B, 4/28, p.169
Rod or tube straightener, IE, 1/21, p.86
Tube straightener, 4/28, p.92

Magnaflux Corp.:
Inspection service, 3/3, p.190

Magnethermic Corp.:
Agent named, B, 1/28, p.121
Induction heating booklet, 3/3, p.92
Plug-in induction heating, 4/7, p.118

Magnus Chemical Co.:
Cleaner removes carbon, IE, 3/10, p.204
Cutting fluids, IE, 3/17, p.136
Live steam speeds cleaning solutions, ENG, 6/23, p.71

Main Belting Co.:
Abrasive, oily material conveyor belt, IE, 5/12, p.164
Hotstuff conveyor belt, IE, 3/24, p.120

Main Products Corp.:
Pulley lagging compound, IE, 4/21, p.136

Mainten-Aire Corp.:
Formed, B, 1/21, p.127

Mall Tool Co.:
Pneumatic grinder, IE, 4/14, p.150
Special drilling head angle design pic., 6/2, p.144

Mallory & Co. Inc., P. R.:
Expansion plan, B, 2/11, p.171

Mallory-Sharon Titanium Corp.:
Titanium rolling experiment, 2/18, p.69

Malone Metal Powders Inc.:
Formed, B, 4/7, p.227

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*, YC—*Yearbook Comment*

Maltby Co., Edward D.:
Erects building, B, 2/4, p.205

Manco Mfg. Co.:
Bolt cutter, IE, 3/31, p.131
Guillotine cutter, IE, 5/5, p.161
Wire rope cutter, IE, 5/12, p.166

Manganese Inc.:
Expands, 3/17, p.59

Manitowoc Shipbuilding Co.:
Continuous welds on 100-ft track, 2/4, p.126

Manton-Gaulin Mfg. Co.:
Pump moves difficult materials, IE, 2/4, p.166

Manufacturers' Representatives Inc.:
Plant started, B, 2/18, p.191

Marchand Furnace Co.:
Sold, B, 1/14, p.119

Marine Aircraft Corp.:
Metalforming press, 4/7, p.95

Marion Power Shovel Co.:
Yard shovel, pic., 2/4, p.136

Market Forge Co.:
Conveyor-rated 1000 lbs., IE, 3/3, p.144
Pallet racks, IE, 5/19, p.160
Tractor, warehouse use, IE, 1/28, p. 85

Marks Co., Robert:
Boron carbide lapping compound, IE, 1/28, p.88

Marlin-Rockwell Corp.:
Bearing plant, N. Y., B, 1/14, p.117

Marmon-Herrington Co.:
Belgian firm gets rights, B, 1/14, p.115

Maroth Engineering:
Vise face plates, IE, 6/16, p.193

Marshall & Huschart Machinery Co.:
Contributor, YC, 1/7, p.322

Martin Co., Glenn L.:
Expands Army plant, B, 2/18, p.195
Machine maintenance, 3/3, p.79

Martin Engineering Co.:
Nonbinding flask pin, IE, 1/28, p.89
Vibrator, all-directional power, IE, 2/11, p.144

Martin Equipment Corp., J. E.:
Sold, B, 5/19, p.187

Massey-Harris Co. Ltd.:
Buys African firm, B, 6/23, p.169

Master Chemical Corp.:
Coolant, new, 3/17, p.116

Master-Taper Co.:
Lathe tailstock-taper turning attach., 5/26, p.144

Matthews & Co., Jas. H.:
Pneumatic marking machine, IE, 3/10, p.196

Matthews Tire & Tread Co.:
Plant sold, B, 1/21, p.127

Matticks Mfg. Co.:
Soft plastic mallets, IE, 5/5, p.172

Mattison Machine Works:
Contributor, YC, 1/7, p.364

Maytag Co.:
Forkless fork truck, pic., 6/2, p.134

McCall Refrigerator Corp.:
Fire damage, B, 3/17, p.169

McDanel Refractory Porcelain Co.:
Adds machine shop, B, 3/3, p.183

McGregor Mfg. Corp.:
Guiderol cageless bearings keep rollers in alignment, IE, 3/17, p.141

McGill Mfg. Corp.:
Arc welder cuts aircraft engine tungsten, gas, pic., 4/28, p.96

McKay Machine Co.:
Strip handling, pic., 2/18, p.96

McKee & Co., Arthur G.:
Contributor, YC, 1/7, p.222

McLouth Steel Corp.:
Chicago office, B, 4/7, p.229

Mecha-Finish Corp.:
Separator speeds tumbling, IE, 1/14, p.79

Medina Iron & Brass Co.:
Sold, B, 1/28, p.119

Mead Specialties Co.:
Books, Air power at work, 3/31, p.102

Medart Co.:
Wire straightener, IE, 5/19, p.147

Meehanite Metal Corp.:
Bulletin, pumps, 4/14, p.120
Licenses foundry, B, 5/5, p.201

Mercury Hardware Co.:
Agent named, B, 4/28, p.171

Melli-Blumberg Corp.:
Buys Hough sweeper line, B, 4/28, p.171

Meneely & Co. Inc.:
Closes, B, 3/17, p.165

Merritt-Solem Corp.:
Drive unit cuts shock load, IE, 4/28, p.136

Metal & Thermit Corp.:
Plating, tin-zinc alloy, 1/21, p.66
Welders silicone insulated, IE, 6/23, p.133

Metal Carbides Corp.:
Plant for Boardman, O., B, 6/30, p.139

Metal Hydrides Inc.:
Expands, B, 1/21, p.127; 5/12, p.195

Metal Removal Co.:
End mills, die cutters, IE, 3/31, p.127

Metallizing Co. of America:
Machine impregnates casting, IE, 1/7, p.549

Metallizing Engineering Co. Inc.:
Metal spray for printing equip., 3/3, p.104

Metalmold Corp.:
Sold, B, 3/10, p.237

Met-L-Chek Co.:
Surface defects, dye inspection, 2/25, p.126

Metron Instrument Co.:
Tachometers, IE, 2/18, p.164; 6/2, p.160

Mettler Machine Tool Inc.:
Feed starter for straightening coil ends, IE, 3/10, p.193
Tube straightener, IE, 2/18, p.156

Metzgar Co.:
Belt removes slugs and waste, IE, 1/21, p.85

Michaels Art Bronze Co.:
Buys meter business, B, 2/4, p.207

Michigan Crane & Conveyor Co.:
Moves, B, 3/10, p.235

Michigan Foundry & Supply Co.:
Mining scrap iron from slag dump, pic., 1/14, p.29

Michigan Oven Co.:
Moves, B, 6/2, p.192

Michigan Powdered Metal Products Co. Inc.:
Wear place-lubricant, IE, 4/28, p.140

Michigan Steel Castings Co.:
Furnace preheats, dewaxes, 3/3, p.86

Michigan Tool Co.:
Contributor, YC, 1/7, p.322
Unground hobs, 4/7, p.170

Micromatic Hone Co.:
Contributor, YC, 1/7, p.338

Micrometrical Mfg. Co.:
New name, B, 2/11, p.175

Midcontinent Tube Service Inc.:
Buys quarters, B, 5/19, p.190

Middleton Steel Corp.:
Machine burrs, chamfers edges strip steel, IE, 2/4, p.161

Midvale Co.:
Contributor, YC, 1/7, p.290

Midwest Piping & Supply Co. Inc.:
Moves N. Y. offices, B, 3/31, p.157

Midway Tool Co. Inc.:
Adds agents, B, 5/19, p.190

Midwest Foundry & Steel Inc.:
Formed, B, 5/26, p.173

Midwest Piping & Supply Co. Inc.:
Adds to plant, B, 6/30, p.139

Milburn Co.:
Heat repelling glove, IE, 2/11, p.142

Miles Mfg. Co.:
Rivets used in welding, 4/14, p.132

Milford Rivet & Machine Co.:
Book, automatic setting, 5/12, p.130

Miller Co, Inc., R.H.:
Copper coating (Redskin), IE, 4/14, p.166

Miller Motor Co.:
Cylinder features no-sag rod, 3/3, p.125

Miller Steel Co.:
Campbell buys, B, 2/11, p.171

Millers Falls Co.:
Industrial sander, IE, 1/21, p.94

Milne & Co., A.:
Detroit sales ofice, B, 4/28, p.167
Moves Coast office, B, 3/17, p.169

Mine Safety Appliances Co.:
Air flow control valve, IE, 3/24, p.118
ChemKovers, IE, 1/21, p.96
Faceshield, IE, 4/7, p.203
Jacobson addresses electrochemists, 5/12, p.142
Oxygen indicator, IE, 2/18, p.167
Ventilator moves air quickly, IE, 3/31, p.119

Minneapolis-Honeywell Regulator Co.:
Bulletin, instrument controls, 4/21, p.107
Console desk records temperatures, IE, 3/3, p.149
Industrial instrument pen, IE, 3/31, p.128
Instrument, close control, IE, 6/16, p.188
Moisture meter prevents rust, 4/14, p.70
Snap-action switch, IE, 6/23, p.143
Time, temperature control, IE, 5/26, p.135
Unit controls time, temperature, IE, 6/2, p.152
Unit measures, controls flow, IE, 6/9, p.148
Valve research center, B, 5/26, p.173

Minnesota Mining & Mfg. Co.:
Material seals seams, gaps in metals, IE, 3/31, p.131
Sealer, aluminum-colored, IE, 4/7, p.200
Smooth finish for strip, 3/3, p.82

Minster Machine Co.:
Contributor, YC, 1/7, p.298

Mitchell Inc., Lloyd E.:
Adds dept., B, 6/9, p.182

Mitchell-Bradford Chemical Co.:
Contributor, YC, 1/7, p.408

Mitchell Chemical Co. Inc.:
Rust preventive packaged, Metal Guard, IE, 4/21, p.139

Mobile Power Inc.:
Power take-off installation, IE, 2/4, p.170

Modernair Corp.:
Holding fixture, IE, 4/7, p.196

Modern Industrial Engineering:
Tool chamfers hypoid pinions, IE, 4/14, p.159

Modern Steel Treating Co.:
Leases building, B, 3/31, p.159

Modern Welding Co.:
Texas permit, B, 2/4, p.207

Molded Products Corp.:
Sold, B, 2/11, p.171

Moline Tool Co.:
Contributor, YC, 1/7, p.364

Monarch Machine Tool Co.:
Contributor, YC, 1/7, p.369
Lathe turns, bores jet parts, IE, 5/23, p.135
Lathe vibrations tested, 6/2, p.99
T-type lathes, backlog, 5/12, p.52
T-lathe, jet machining, 2/11, p.86

Monitor Controller Co.:
Sold, B, 4/21, p.167

Monroe Co. Inc.:
Concrete floor hardener, IE, 6/23, p.140

Monsanto Chemical Co.:
Chlorine plant, Ala., B, 1/21, p.125
Exhibits shell molding machine, 4/7, p.180
Phenol plant, Calif., B, 2/18, p.193
Resins for shell molds reported, 5/12, p.134

Morrison Industries Inc.:
Process for drums, IE, 5/26, p.139

Motor Generator Corp.:
Motor generator frequency changers, IE, 4/14, p.165

Motorola Corp.:
Prices cut, TV, by absorbing tax, 4/7, p.78

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Morris Wheeler & Co. Inc.

Acquires div. of Rose Iron B 2-11 p.171

Morrison Industries

Grinder furnace [illegible] IE 6-16 p.169

Morrison-Knudsen Co. Inc.

Tower crane for gate assembly pic 2-4 p.120
Gets road contract, Venezuela B 2-4 p.203

Morrison Steel Products Inc.

Expanding B 3-24 p.151

Morse Mfg. Co. Inc.

Buys hardware line B 2-11 p.171

Motch & Merryweather Machinery Co.

Stock feeder attach. IE 6-2 p.148
Transfer machine, automatic IE 3-31 p.119
Wheel forming mount IE 1-28 p.129

Moto Mower Co.

Blower control dust IE 4-21 p.125

Moto True Co.

Lift truck, battery-powered IE 6-30 p.108

Motor Products Corp.

[illegible] 5-21 p.95

Motorola Inc.

Forms defense div. B 3-24 p.151
Microwave equipment added 3-21 p.108
Moves div. B 2-18 p.191
Radio receiver simplified pic 1-24 p.90

Mullins Mfg. Corp.

Purchasing agent of W. [illegible] 1-14 p.74

Multifinish Mfg. Co.

Chemical pump [illegible] IE 6-16 p.190

Multi Hydromatic Welding & Mfg. Co.

[illegible] IE 2-11 p.130

Murray Products Inc.

Plastic plate [illegible] 2-18 p.140

Murphy & Miller

Humidity testing cabinet IE 6-2 p.199

Murphy & Co. Inc., James A.

Separator filter IE 5-5 p.171

Murphy Co., Joseph F.

Reamer portable, three speed IE 1-28 p.81

Murray Mfg. Co., D. J.

Adds to plant B 4-28 p.171

Murray Way Corp.

Jet blade [illegible] machine 6-? p.51

N

Nabaskowski Co., V.

Chartered B 6-30 p.141

Nash Kelvinator Corp.

Pinin Farina design 3-17 p.96
Price cut, refrigerators 6-9 p.51

National Acme Co.

Contributor YC 1-7 p.352

National Air Foam Systems Inc.

Sprinklers use foam 4-21 p.105

National Aluminate Corp.

MSA contract 5-26 p.57

National Broach & Machine Co.

Contributor YC 1-7 p.328
Holder for gear change IE 6-30 p.106
Gear grinder, lead bar principle IE 2-11 p.140

National Carbon Co.

Motor brush bulletin 3-10 p.174

National Cash Register Co.

Floor [illegible] pic 1-28 p.119

National Electric Products Corp.

Raceway circuit extensions IE 2-25 p.128
Buys Bacon agency B 6-9 p.180
Forms electronics div. B 4-21 p.167
Moves operations B 1-21 p.123

National Erie Corp.

Aetna Standard buys div. B 3-10 p.235

National Forge & Ordnance Co.

Extensometer IE 4-4 p.131

National Foundry Sand Co.

Hi Temp Refracto line IE 4-21 p.139

National Gypsum Co.

Expands Niles, O. B 4-14 p.193

National Machinery Co.

Contributor YC 1-7 p.295
Forging press redesign IE 1-14 p.79

National Malleable & Steel Castings Co.

Buys Capital Foundry B 3-3 p.181

National Research Corp.

Forms Vacuum Metals B 4-7 p.231
Moore, R. C., metal research paper 5-5 p.144
Opens Newton plant B 4-21 p.165

National Rubber Machinery Co.

Shipping damage reduced 3-17 p.95

National Steel Corp.

[illegible] project [illegible] 3-31 p.37

National Super Service Co. Inc.

Filter bag IE 3-10 p.206

National Supply Co.

Arc-air jet torch cuts metals 2-25 p.79
Booklet explains pipe destructive factors 2-18 p.120
Thin tubes welded steel bath, shields worker pic 2-18 p.107
Ingenuity frame uses salvaged parts 4-21 p.160
Zinc dust recovery, Spang-Chalfant 5-19 p.93
Opens outlet B 5-19 p.189

National Tool & Equipment Co.

Air compressor portable IE 6-9 p.150

National Transmission Distributors Inc.

Worm reduction gears IE 1-28 p.84

Neblett, Thomas F.

Moves B 4-14 p.197

Nelco Tool Co.

Building program B 1-7 p.374

Nesbitt Co., John J.

Buys plant B 2-18 p.191

Nesco Inc.

Buys Flock Inc. B 4-21 p.165

New Britain Machine Co.

GE copying lathe IE 6-9 p.139
Circular pattern drilling machine IE 3-3 p.139
Hoke, NPA post 4-14 p.69

Newcomer Products Inc.

Cutting carbide IE 4-14 p.166

New England Butt Co.

Expands plant B 4-21 p.167

New England Carbide Tool Co.

Carbide tipped drill bit IE 4-21 p.134
Masonry drill bit IE 6-30 p.112

New Jersey Zinc Co.

[illegible], contributor YC 1-7 p.242

Newman, L.

Emery wheel dresser IE 4-7 p.209

New Process D Enameling Corp.

Licenses reclamation process for foreign firms 4-7 p.173
Sandblast line 3-3 p.113

New Process Gear Corp.

Capital expenditures B 1-14 p.115

New York Air Brake Co.

Hydreco new div. B 6-16 p.219

New York Belting & Packing Co.

Adds agent B 6-23 p.170

New York Car Wheel Co.

Closes B 1-7 p.371
Plant sold B 1-28 p.121

New York Coil Co. Inc.

Moves B 6-9 p.177

New York Shipbuilding Corp.

Build [illegible] cruisers for Defense 2-4 p.64

Newnam Foundry Inc.

Fire damage B 4-28 p.171

Niagara Blower Co.

After cooler design IE 6-9 p.140

Niagara Machine & Tool Works:

Air power squaring shears IE 5-12 p.153
Buys equipment B 4-14 p.195
Sales office Phila. B 4-7 p.227

Nielco Laboratories:

Oxidized oils remover IE 1-21 p.96

Newcomer Products Inc.:

Expands B 5-19 p.189

Niles-Bement-Pond

P & W automatic grinder IE 6-9 p.138
P & W internal grinder spindles IE 5-5 p.163
P & W jig borer IE 6-16 p.181
P & W moves at Pittsburgh B 2-25 p.159
P & W moves at Rochester B 6-2 p.191
P & W wheel forming attach. IE 5-19 p.151

Nooter Corp.:

Forms metalizing firm B 6-23 p.170

Nordberg Mfg. Co.:

Engines burn natural gas 5-12 p.61
Lathes, jet machining 2-11 p.86
Mine hoist 6-23 p.106

Nordskog Mfg. Co.:

Builds aircraft galleys B 1-7 p.377

Norgren Co., C. A.:

Filter drains liquids IE 1-14 p.91
Precision pressure regulator IE 3-10 p.204

North American Aviation Inc.:

Attack bomber Savage NA2J-1 pic 1-28 p.37
Electronic hammer "Strafitron" 2-18 p.100
Leases factory area B 2-4 p.207
Leases space B 3-17 p.167
Procurement office B 3-24 p.147
Tester leaks in fuel cells pic 6-16 p.146

North American Coal Corp.:

Merges subsidiaries B 5-12 p.198

North American Philips Co. Inc.:

Machines for precision work on x-ray pic 6-9 p.180
Tin-plate thickness gage IE 1-28 p.85
X-ray fluorescence analysis 3-24 p.70
X-ray fluorescence analysis pic 5-12 p.64
X-ray powder cameras IE 6-16 p.190
X-ray spectrometer 2-4 p.126

North American Products Co.:

Metal slitting saw 6-9 p.125

North American Refractories Co.:

Brick sheds slag IE 1-28 p.93

North American Steel Co.:

Pig iron plant, Iowa 3-10 p.80

Northern Electric Co.:

Expands B 4-7 p.227

Northwest Bolt & Nut Co.:

Adds to plant B 6-23 p.170
Moves B 1-21 p.123

Northwest Chemical Co.:

Agent named B 1-28 p.110; 2-25 p.159

Northwestern Tool & Engineering Co.:

Comparison chart, jig fixtures 5-26 p.130

Norton Co.:

Compressor wheel grinder IE 5-5 p.164
Contour jet blade grinder IE 3-31 p.119
Cylindrical grinder IE 3-3 p.139
Grinding wheel wear report 3-3 p.75
Hicks, E. M., metal research paper 5-5 p.144; YC contributor 1-7 p.324
Hub-type grinding wheel IE 2-18 p.167

Numberall Stamp & Tool Co.:

Stamps name plates IE 2-18 p.164

Nutone Inc.:

Overhead conveying 6-30 p.81

O

Oakes Mfg. Co. Inc.

Sold B 4-14 p.198

Oakite Products Inc.:

Aluminum cleaning 2-11 p.90
Moves B 3-17 p.167

Oakman Mfg. Co.:

Opens 2nd plant B 3-24 p.147

Octagon Process Inc.:

Accelerated phosphate coating 5-12 p.92
Potassium cyanide for plating IE 3-17 p.138
Rustclean chemical IE 3-31 p.128

Ohio Crankshaft Co.:

Contributor YC 1-7 p.402
Far East agent B 4-14 p.193

Ohio Equipment Co. Inc.:

Gets agency B 2-18 p.193

Ohio Knife Co.:

Adds space B 4-21 p.161

Ohio Manganese Inc.:

Plant loan to extract manganese 2-11 p.65

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Ohio River Steel Corp.:
Certificate to expand 5/12 p.61
Sold 6/16 p.69

Ohio Screw Products Inc.:
Moves B 4/21 p.167

Ohmite Mfg. Co.:
Resistor for high current use IE 6/23 p.143

Oilpower Engineering Co.:
Hydraulic press line IE 4/14 p.156

Oilpure Refiner Sales Co.:
Oil refiner IE 5/19 p.158

Oil-Right Corp.:
Gravity-feed oiling system 5/26 p.138
Moves B 3/3 p.183

Okadee Co.:
Electrically-heated valves IE 6/16 p.189

Oklahoma Compressed Steel Corp.:
Granted charter B 1/28 p.121

Okun Co., A. L.:
Filler material Cold Solder IE 2/4 p.179

Olin Industries Inc.:
Aluminum facilities expansion interest 4/21 p.53
Buys Ramset B 5/26 p.173

Oliver Corp.:
Blast cleaning methods 1/21 p.64

Oliver Iron Mining:
Owner 3/17 p.65

Olson Mfg. Co. Inc., Samual:
Conveyorized inspection table IE 3/10 p.196

Omaha Industries Inc.:
Subcontracts $1 million 6/2 p.69

Oneida Products Corp.:
Sold B 4/21 p.167

Ontario Research Foundation:
Density of steel controlled B 2/4 p.203

Orinoco Mining Co.:
Buys ore cars B 4/7 p.231
Contract awarded B S A 1/28 p.117
Contract to Link-Belt B 3/10 p.233

Orlandi Gear & Machine Co.:
Adaptor for gear checker IE 4/14 p.150

Osborn Mfg. Co.:
Brushes clean Army tanks 3/31 p.48
Power brushing IE 6/23 p.136
Roto-Core machine design 2/11 p.92

Oster & Barry Motor Sales:
Used car deal 3/10 p.92 ends 5/5 p.84

Ostrom, Cyrus W.:
Buys Hillman B 6/30 p.144

Outboard Marine & Mfg. Co.:
Buys RPM Mfg. B 2/11 p.175
Research bldg. B 4/14 p.195

Owatonna Tool Co.:
Hydraulic ram 30-ton IE 6/2 p.134

P

P & H Chemical Co.:
Coating protects aluminum 5/26 p.144

P & J Engineering Co.:
Moves B 1/14 p.119

PDQ Grinder Co.:
Surface grinder IE 6/23 p.133

Pacific Car & Foundry Co.:
To build amphibious units B 1/7 p.577

Pacific Gas & Electric Co.:
Option on site B 2/25 p.157

Pacific International Products Inc.:
Moves B 6/9 p.177

Pacific Metal & Salvage Co.:
Name changes B 4/14 p.197

Pacific Telephone & Telegraph Co.:
Expansion plan B 2/18 p.193

Pacific Tube Co.:
Adds facilities B 6/2 p.192

Packard-Bell Co.:
Expands B 5/5 p.208

Packard Motor Car Co.:
Nance president 5/19 p.76; 6/16 p.82
Scrapped skip hoist 3/3 p.49

Paint Corp. of America:
Book antirust paint 4/28 p.106

Palmer-Shile Co.:
Drum and barrel sling IE 6/23 p.138
Dust pan IE 2/4 p.172
Rack handles small parts IE 6/9 p.144
Scrap dumping cart IE 2/25 p.128
Welder's truck IE 4/28 p.131

Paltier Corp.:
Knock-down stacking box IE 3/31 p.127

Pandjiris Weldment Co.:
Welding positioner IE 2/4 p.165

Pangborn Corp.:
Cloth bag dust collector IE 1/28 p.85
Contributors YC 1/7 p.241 439
Rotoblast barrel pic 4/28 p.92

Pantex Mfg. Co.:
Quality control system 5/19 p.90

Park Chemical Co.:
Contributor YC 1/7 p.313

Park Metalware Co. Inc.:
Changes name B 1/21 p.125

Parker Appliance Co.:
Agent named B 2/11 p.171, 4/21 p.167
Jet parts fabrication 3/31 p.79
Sales up 2/11 p.57
Sells valve line B 4/28 p.169
Tube-fitting catalog 1/21 p.80

Pastushin Aviation Corp.:
Jet range extenders shipped to Korea pic 4/21 p.58
Plant for Calif B 1/14 p.117

Patterson Wells Corp.:
Planisol cleaner IE 3/3 p.157

Paulsen-Webber Cordage Corp.:
Triples output B 5/26 p.173

Peabody Coal Co.:
Trackmobile positions coal car for loading 5/12 p.138

Peabody Industries Inc.:
Surface hardness tester IE 1/14 p.88

Penco Engineering Co.:
Ramp for truck loading IE 3/31 p.121

Peerless of America Inc.:
Shell contract 2/18 p.70

Penfield Mfg. Co.:
Demineralizing line IE 5/26 p.138

Pennsylvania Salt Mfg. Co.:
Adds to Wyandotte plant B 1/21 p.127
Consolidates chemical dept B 2/18 p.195
Merges research units B 6/23 p.169
Opens Oreg plant B 1/14 p.117
Rust-inhibiting cleaner IE 3/31 p.126

Peoria Consolidated Manufacturers Inc.:
Subcontracts $1 million 6/2 p.68

Pereny Equipment Co.:
Aluminum bar heating furnace IE 6/30 p.103

Perfect Circle Corp.:
Buys Centrifugal Foundry B 4/7 p.227, 2/4 p.203

Perfection Stove Co.:
Agent named B 6/2 p.191

Perfex Gage & Tool Co.:
Tangi-Matic dresser IE 3/17 p.134

Perkins Machine & Gear Co.:
Buys Bendit machine B 3/31 p.155
Precision spring coiler IE 3/3 p.139

Permamix Corp.:
Floor patching material IE 3/17 p.136

Permutit Co.:
Paul on C. F. paper on metal recovery 5/19 p.142

Peterson Steels Inc.:
Moves warehouse B 3/24 p.151

Pettibone Mulliken Corp.:
Sand conditioner machine IE 3/3 p.140

Phelps-Dodge Corp.:
Copper ore development 3/17 p.59

Philco Corp.:
V-loan 1/14 p.18

Philips-Palit Corp.:
Exports to India B 6/2 p.192

Phillips Mine & Supply Co.:
Dump trailer IE 1/7 p.550
Trailer handles long parts IE 4/28 p.137

Phillips Pattern & Mfg. Co.:
Adds facilities B 4/21 p.165

Phillips Scientific Laboratories:
Chemical prevents rust 6/23 p.71

Photo-Electric Pilot Corp.:
Sold B 6/2 p.192

Photoswitch Inc.:
Electronic timer IE 6/2 p.160

Physicists Research Co.:
Changes name B 2/11 p.175

Pine, William S.:
Jack for heavy rigging IE 5/19 p.156

Pines Engineering Co. Inc.:
Tube bender IE 6/23 p.128

Pioche Manganese Co.:
Expands 3/17 p.59

Pipe Machinery Co.:
Thread ring gages IE 1/14 p.86

Pittsburgh-Des Moines Steel Co.:
Branch L A B 2/4 p.207

Pittsburgh Lectrodryer Corp.:
Dehumidifier cuts rust 4/7 p.180

Pittsburgh Plate Glass Co.:
Adds Ind plant B 1/21 p.127
Opens Baltimore plant B 4/28 p.171

Pittsburgh Steel Co.:
Allentown mill construction pic 4/14 p.198
Amplifier controls cold mill 2/18 p.120
Blooming mill new other expansions planned 1/21 p.36
Strip mill Allenport award to Westinghouse 1/28 p.28
Tandem mill has twin-motor drives ENG 5/12 p.87

Pittsburgh Trion Inc.:
Air cleaners report 1/28 p.38

Pivot Punch & Die Corp.:
May make wheel device B 1/28 p.117

Plant Bros. Drydock Co.:
Navy lease 3/17 p.57

Platte Pipe Line Co.:
Oil pipeline Wyoming to Illinois 5/12 p.71

Pneu-Trol Devices Inc.:
Time relay switch IE 6/16 p.189

Porter Co. Inc., H. K.:
American-Fort Spring agents B 6/9 p.177; 6/23 p.170
Quaker Rubber branch N J B 5/19 p.187
Quaker Rubber branch Cincinnati B 6/23 p.169
Quaker Rubber branch St Louis B 3/31 p.157
Quaker Rubber mixing bldg. B 6/30 p.144
Quaker Rubber new facilities B 6/9 p.180
Quaker Rubber wire braided hose dept B 4/21 p.165

Porter-Cable Machine Co.:
Book adhesive machine 3/10 p.155
Floor sanding machine line B 2/11 p.173
Grinder all-purpose IE 3/31 p.121

Porter Precision Products:
Piercing punches IE 3/10 p.209

Portman Instrument Co.:
Comparator bench-type IE 3/17 p.130

Post Co., Frederick:
Conversion chart 2/4 p.132

Potter Instrument Co.:
Counter-chronograph measures timing ENG 6/9 p.89
Recording counter-chronograph IE 3/10 p.199
Predetermined electronic counter IE 1/21 p.85

Potts Co., Horace T.:
Forms junior management group B 6/2 p.192

Prat-Daniel Corp.:
Oil-gas burner IE 5/26 p.136
Thermobloc heating unit IE 5/5 p.166

Pratt & Whitney:
See Niles-Bement Pond
See United Aircraft

Preakness Inc.:
Insulator washing IE 4/14 p.156

Precise Products Co.:
Grinder-miller IE 1/28 p.90

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Precision Castings Corp.:
Plant, Chicago, B, 2/25, p.157

Precision Film Laboratories Inc.:
Fittings make fast couples, 6/30, p.89

Precision Flexopress Corp.:
Formed, B, 2/4, p.203

Precision Metalsmiths Inc.:
Investment casting, 1/14, p.58

Precision Scientific Co.:
Cold test bath redesign, IE, 2/4, p.161
Mercury cathode analyzer, IE, 5/12, p.156

Preis Engraving Machine Co.:
Diamond cutters mark steel, IE, 4/7, p.196

Pressed Steel Car Co.:
Portable houses, 5/19, p.73

Prestoseal Mfg. Co.:
Splicer for film, 5/26, p.126

Price Fireplace Heater & Tank Corp.:
Buys plant, B, 1/28, p.121
Sold, B, 2/11, p.173

Process Chemical Specialties:
Precision-furnacing, rare metals, 3/3, p.76

Process Gear Co.:
Nylon used for cams, 4/7, p.173

Production Devices Inc.:
Pneumatic vise, IE, 4/14, p.169

Production Enterprises:
Sold, B, 4/21, p.165

Production Instrument Co.:
Heavy duty switch, IE, 4/28, p.143
Lineal measuring actuator, IE, 6/30, p.115

Production Steel Coil Inc.:
Strip rolling adds to service, 5/19, p.100

Producto Machine Co.:
Automatic feed for presses, IE, 2/18, p.160
Die sets improved, IE, 2/4, p.174
Springs high pressure, IE, 1/7, p.552

Proto Tools of Canada Ltd.:
To build plant, B, 6/2, p.191

Pryor Mfg. Co.:
Small company start-how done, 1/28, p.39

Pullman Standard Car Co.:
Welded plates for gondola car chutes, 6/23, p.101

Pyles Industries Inc.:
Hydraulic hose coupling, IE, 1/14, p.79

Pyrometer Instrument Co.:
Surface pyrometer, IE, 6/9, p.153

Pyron Corp.:
Boosts output, B, 3/17, p.165

Q

Quaker Rubber Corp.:
See H. K. Porter Co.

Quebec Iron & Titanium Corp.:
Desulphurization, nitrogen injection, 1/21, p.80

Quality Steels Canada Ltd.:
To be sold, B, 3/17, p.169

Queen City Machine Tool Co.:
Multiposition locating device, IE, 1/28, p.89

Queensboro Transformer & Machinery Co.:
Sold, B, 6/23, p.167

R

RPM Mfg. Co.:
Sold, B, 2/11, p.175

R-S Products Corp.:
Valve, IE, 1/14, p.86

Racine Tool & Machine Co.:
Moves, B, 4/21, p.167

Radio Corp. of America:
Book, electron microscope at work, 5/12, p.144
Electronic for inventory control, 5/12, p.52
To build lab, 5/26, p.173

Radio Receptor Co. Inc.:
Rectifier article, 2/4, p.148

Radius Tool Co.:
Carbide rivet sets, IE, 3/24, p.123

Rail T Water, Transfer Corp.:
Coal conveyor belt, 6/16, p.160

Ramset Fasteners Inc.:
True-Set fasteners, IE, 4/7, p.200
Sold, B, 5/26, p.173

Ramseyer & Miller Inc.:
Ramseyer, contributor, Forum on Technical Progress, 1/7, p.222

Ranetite Mfg. Co. Inc.:
Silicone base water repellent, IE, 3/24, p.123

Rapids-Standard Co. Inc.:
Gravity conveyors, IE, 4/7, p.195, 6/30, p.106
Positive-action belt trainer, IE, 5/5, p.177

Ravenna Arsenal Inc.:
Arsenal restored, B, 1/21, p.125

Raybestos-Manhattan Co.:
Conveyor belt testing machine, 3/24, p.94
Plant, Ind., B, 2/4, p.205
Precision roll grinder installed S.C., B, 4/7, p.227

Raymond Corp.:
Telescoping fork extension, IE, 3/3, p.142

Ray-O-Vac Co.:
Merges with subsidiary, B, 6/23, p.167

Raytheon Mfg. Co.:
Duplicator, 3/31, p.104

Ready Tool Co.:
Agent named, B, 2/4, p.207

Red Comet Inc.:
Corrosion-proof extinguisher, IE, 5/5, p.172

Reed Engineering Co.:
Heavy-duty turning rolls, IE, 4/28, p.135
Welding positioner, IE, 2/18, p.159

Reed-Prentice Corp.:
Engine lathe, IE, 5/5, p.161

Reed Rolled Thread Die Co.:
Pipe thread data, 2/18, p.142

Reed Roller Bit Co.:
Agents, B, 2/11, p.173, 3/17, p.169, 4/7, p.227, 6/9, p.179
Automatic countersink, IE, 3/10, p.204

Reeves Pulley Co.:
Mechanical automatic control, IE, 1/21, p.86

Reid Avery Co. Inc.:
Adds building, B, 6/9, p.182

Reintjes Co., Geo. P.:
Opens office, B, 6/9, p.182

Reichhold Chemicals Inc.:
Builds in South, B, 2/18, p.193

Reid Bros. Co.:
Surface grinder 10,000th, pic., B, 1/14, p.117

Reliance Electric & Engineering Co.:
Contributor, YC, 1/7, p.296
Enclosed, dual-cooled motor, 6/9, p.132
Euclid plant opening, pic., B, 1/14, p.119
Moves offices, B, 3/10, p.235
New floating worm gear motor, ENG, 5/26, p.75
New motors: Answer to rising wage costs, 5/26, p.50
Speed drive on punch press, pic., 6/30, p.93

Rem-Cru Titanium Inc.:
Contributor, YC, 1/7, p.248

Remington Arms Co.:
Contributor, YC, 1/7, p.270

Remington Rand Inc.:
Cards serve production control, 3/31, p.108
Expands at Ilion, B, 4/21, p.165
Expands at Marietta, B, 2/11, p.175
Production controls booklet, 2/4, p.123
Transfers work to Elmira, B, 3/31, p.155
Unit copies recorded with Portagraph, 4/7, p.164

Reo Motors Inc.:
Army truck "Eager Beaver" inspected, pic., 6/9, p.66
LP gas for engines, 2/18, p.79
Lawn mower blades austempered, 2/4, p.147

Repro-Templets Inc.:
Shop planning file, ENG, 4/21, p.79

Republic Aviation Corp.:
Perilous profits, Pearle reports, 4/14, p.70

Republic Flow Meters Co.:
Adds branches, staff, B, 1/7, p.575

Republic Mfg. Co.:
Buys Parker valve line, B, 4/28, p.169

Republic Stamping & Enameling Co.:
Ekco makes purchase offer, B, 5/5, p.204

Republic Steel Corp.:
Acquires interest in Reserve Mining, 1/14, p.28
Berger Mfg. steel lockers, pic., 5/5, p.71
Blast furnaces, number top pressure blowing, 3/3, p.84
Blast furnace new, pic., 5/5, p.203
Blast furnaces top pressure—smoother, 3/3, p.89
Cleveland plant, construction pic., 3/10, p.79
Contributor, YC, 1/7, p.230
Deicing switches, pic., 1/21, p.125
Expansions double capacities, 4/7, p.86
Liberian ore, 4/7, p.86
Steel truss framework, seamless tube mill, pic., 2/25, p.157
Teachers view plants, B, 4/7, p.231
Wage, salary payments high, 2/11, p.56

Republic Supply Co. of Calif.:
Liquidates div., 6/2, p.189

Republic Supply Co.:
Opens branch, B, 6/23, p.167
Pallet rack, Berger div., IE, 5/26, p.144
Rust-Oleum agent, B, 4/7, p.231

Reserve Mining Co.:
Expands facilities, Babbitt plant, 3/10, p.80
Owners, 3/17, p.65
Taconite plant, 2/25, p.51

Reuland Electric Co.:
Gear reducer, IE, 2/4, p.169
Magnetic brake eliminates levers, IE, 5/19, p.152
Pedestal grinder, IE, 3/17, p.130
Wafer motors, short overall length, IE, 6/2, p.162

Revco Inc.:
Subzero chest, IE, 1/14, p.84
Variable speed torque converter, 1/21, p.95

Revere Copper & Brass Inc.:
Adds to plant, Baltimore, B, 2/18, p.193
Extrusions shipped, 3/17, p.59
Mold cast by Torrington, 2/11, p.122

Revolvator Co.:
Names agent, B, 2/18, p.195

Reynolds Metals Co.:
Agents named, B, 4/14, p.195
Aluminum alloy cleaning, 2/11, p.88
Generators power machinery at aluminum plant, 6/2, p.100
Production mounts, building use, 4/21, p.53
Military packaging demonstrated, 5/26, p.126
Rectifiers ordered, 3/17, p.59
To build, Ark., B, 4/7, p.231

Rezolin Inc.:
Tool-Plastic, liquid resin, 1/28, p.66

Rheem Mfg. Co.:
Leases storage space, B, 2/18, p.195
Linden plant nears use, B, 3/31, p.159

Rice Pump & Machine Co.:
Tool grinds die clearances, IE, 5/12, p.153

Rich Steel Co.:
Adds facilities, B, 3/3, p.181

Richardson Scale Co.:
Scale weighs cumulatively, IE, 2/18, p.151

Richfield Oil Co.:
Refinery, loan granted, B, 1/21, p.127

Rigidized Metals Corp.:
Agent, West Coast, B, 6/23, p.169
Renames product, B, 5/19, p.190

Ringler Co., F. A.:
Gold surface control, 3/21, p.80

Rio Grande Steel Products Co.:
Adds warehouse, B, 5/12, p.193

Rittling Corp.:
Acquires Erie station, B, 4/7, p.229

Riverside Mfg. & Electrical Supply Co.:
Waterproof toggle switches, IE, 2/4, p.179

Riverside Metal Co.:
Precision spinning . . . gyro indicators for aircraft, 3/24, p.68

Rivett Lathe & Grinder Inc.:
Agent named, B, 6/9, p.177
Air cylinder line, IE, 2/25, p.131
Instrument lathe, IE, 3/3, p.139
Internal-external grinder, IE, 5/12, p.154

Roach Equipment Mfg. Co.:
Names agent, B, 3/10, p.237

Robb Mfg. Co.:
Quick-Seal hose couplings, IE, 3/10, p.209

Robbins & Myers Inc.:
Motor line expanded, IE, 1/21, p.88

Roberts & Mander Corp.:
Buys Price Fireplace, B, 2/11, p.173

Robinson Co., E. F.:
Trucks for excavating work, pic., 6/30, p.142

Robinson & Lee:
Automatic air oiler, IE, 4/28, p.140

Robinson Clay Products Co.:
Expands, B, 2/25, p.155

Rockford Machine Tool Co.:
Contributor, YC, 1/7, p.342

Rockwell Mfg. Co.:
Buys tool firms, B, 2/25, p.155

Roebling's Sons Co., John A.:
Contributor, YC, 1/7, p.420
Moves at L. A., B, 4/7, p.229
Sells insect wire facilities, 5/5, p.62

Rohr Aircraft Corp.:
Adds plant, B, 5/19, p.187

Rolled Steel Products Corp.
Adds plant, B, 2/4, p.207

Roller Bearing Co. of America:
Pitch line bearing, new, ENG, 5/19, p.89

Rolloy Piston Co. Ltd.:
Bimetallic piston license, 2/25, p.114

Roos-Connersville Blower Corp.:
Absorbed into as div., B, 4/7, p.229

Rosan Inc.:
Resumes production, B, 4/21, p.165

Ross Gear & Tool Co.:
Steering assembly heat treating, 2/11, p.82

Ross Operating Valve Co.:
Small cam valve, IE, 3/3, p.154

Roto-Finish Co.:
Machine finishes circular parts, IE, 3/10, p.202

Rotor Tool Co.:
Power tool care, book, 3/3, p.123

Round Seattle Chain Corp.:
New name, B, 4/28, p.167

Royal Metal Mfg. Co.:
Adds to sales organization, B, 6/23, p.170
Catalog, furniture, 3/24, p.78
Leases quarters, B, 4/14, p.197

Royal Oak Tool & Machine Co.:
Jaw chuck for grinder, IE, 5/26, p.146

Royal Products:
Tool post turrets, IE, 2/11, p.142

Royal-Walden Corp.:
Buys Production Enterprises, B, 4/21, p.165

Royaloy Inc.:
Water binding for smooth surface, IE, 4/28, p.140

Royston Laboratories Inc.:
Adds at Tulsa, B, 6/23, p.169

Rucker Mfg. Co.:
Fluid-powered speed reducer, IE, 4/7, p.188
Reflex sight gage, IE, 5/12, p.169

Rust Engineering Co.:
Slab heating furnace for Steel Co. of Canada, B, 2/11, p.178

Rust Furnace Co.:
Furnace for National Tube, 5/26, p.107

Rust-Oleum Corp.:
Names agent, B, 4/21, p.165

Ryan Aeronautical Co.:
Backlog grows, Boeing contract, B, 4/21, p.163
Ceramic coatings measured, 3/31, p.101
"Hi-Boy" boring mill, pic., 3/24, p.149
Materials handling custom-tailored carts, 3/24, p.78
Merges ceramic programs, B, 4/14, p.193; 4/28, p.114
Motorized line speeds manifold assembly, 6/16, p.149
Spot welding, 3/17, p.91
Spot welding, mobile unit, 4/14, p.117
Stamping presses, one-piece fabricating, 4/21, p.96
Subcontract, Air Force, 5/5, p.74
Tests clad metals for jets, 5/19, p.104
Welds in fuel tanks, (box), 6/16, p.169
Weighing alum. spar, Pic., 5/5, p.72

Ryerson & Son Inc., Joseph T.:
Flame cutting machine, electric-eye, 5/26, p.129
Scrap drive, newspaper space, 2/4, p.61

S

St. Anthony Machine Products Co.:
Governing brake, IE, 6/30, p.110

S. C. & L. Machine Co.:
Recipro-Tool, marks, IE, 5/26, p.149

SKF Industries Inc.:
Altoona plant opens soon, B, 4/28, p.167
Sealed ball bearings, IE, 6/16, p.190
Unit pillow block, IE, 4/14, p.166

S-M-S Corp.:
Contributor, YC, 1/7, p.382

Safety Socket Screw Co.:
Boosts output, B, 3/17, p.167

Safway Steel Products Inc.:
Steel scaffolding sales, 2/18, p.68
Telescoping steel shore, IE, 5/26, p.142

Sage Equipment Co.:
Live roller conveyor, IE, 5/5, p.161

Sahlin Engineering Co.:
Appoints agent, B, 3/10, p.235
Press unloader, automatic, IE, 1/28, p.84
Unloader, automatic, 6/23, p.138

Salem-Brosius Inc.:
Tongs for hot stock, 4/21, p.103
Valve, goggle-type plate, IE, 6/30, p.103

Sales Service Machine Tool Co.:
Agent named, B, 4/28, p.171
Inclinable power press, IE, 6/2, p.149

San Manuel Copper Corp.:
Copper ore development, 3/17, p.59

Sargent Engineering Corp.:
Expands, B, 1/14, p.119

Schaffner Mfg. Co.:
Cement for polishing wheels, IE, 5/19, p.163

Scaife Co.:
Anniversary building, B, 3/3, p.183

Schaible Co.:
Buys plant, B, 3/17, p.169

Schmitt Co., R. L.:
Moves plant, B, 4/21, p.165

Schneible Co., Claude B.:
Opens office, Detroit, B, 3/24, p.149

Scholl-Choffin Co.:
Contract, piping at Fairless Wks., B, 6/2, p.192

Shroeder Mfg. Co., Fred:
Moves to new factory, B, 6/30, p.144

Schweizer Aircraft Corp.:
Chamberlain buys interest, B, 5/19, p.189

Scovill Mfg. Co.:
Combustion control cited, 3/10, p.174
Strike, 6/30, p.45

Scully-Jones & Co.:
Appoints agent, B, 6/16, p.219
Drill stop for depth control, IE, 4/28, p.143
Floating tap holder, IE, 5/26, p.149
Precision tools for chucking, IE, 1/21, p.99

Seaboard Foundry Inc.:
Buys foundry, B, 3/17, p.165

Seamlex Co. Inc.:
Rotary pressure joint, IE, 6/30, p.112

Seasholtz Metallurgical Service:
Contributor, YC, 1/7, p.310

Seattle Chain & Mfg. Co.:
Name changed, B, 4/7, p.231; 4/28, p.167

Seaver Engineers, J. J.:
Seaver, J. J., contributor, Forum-Technical Progress, 1/7, p.232

Security Locknut Corp.:
Chart tells bolt sizes, 2/25, p.113

Seiberling Rubber Co.:
Rubber cargo carriers for Army, pic., 4/28, p.50

Seidelhuber Steel Rolling Mill Corp.:
Seattle mill construction starts, 6/16, p.71

Seifreat-Elstad Machinery Co.:
Contributor, YC, 1/7, p.356

Selas Corp. of America:
Annealing accelerated with radiant heat, 4/14, p.106
Book, precision in heat processing, 2/18, p.145
Contributor, YC, 1/7, p.316
Frame components of top tractors brazed, 3/31, p.98
Pittsburgh office, B, 3/3, p.181

Seneca Steel Service Inc.:
Plans steel strip mill, B, 4/28, p.167

Severence Tool Co.:
High speed mills, IE, 5/19, p.158

Seymour Mfg. Co.:
Strike, 6/30, p.45

Shakeproof Inc.:
Scrap collection, 2/18, p.68
Thread-cutting screw, IE, 6/23, p.143

Shanango Agaloy Tube Co.:
RFC loan, plant for atomic program, B, 2/4, p.203

Sharon Steel Corp.:
Expands, Fairmont Wks., 3/10, p.80
Reorganizes subsidiaries, B, 1/14, p.115
Titanium rolling successful, 2/18, p.69

Sheffield Steel Corp.:
Beneficiation plant, Tex., starts Aug., 6/30, p.48
Machine gages 34 dimensions, IE, 6/9, p.145

Shell Oil Co.:
Contributor, YC, 1/7, p.464
Fortified lube oil, IE, 6/16, p.193
New fortified lube oil, ENG, 6/16, p.95

Shell-O-Matic Corp.:
Spray for molding machine, B, 5/19, p.189
RFC loan, tube plant, 2/4, p.63, loan granted, 4/21, p.59

Shenango Tube Co.:
Merges with Agaloy, B, 1/14, p.115

Shields Rubber Co.:
Moves branch, B, 6/9, p.180

Sierra Magnesite Co.:
Sold, B, 4/7, p.227

Sight Feed Generator Co.:
Acetylene compressor for cylinder-filling plants, IE, 3/31, p.125

Signode Steel Strapping Co.:
Power strap dispenser, IE, 6/30, p.110

Silent Hoist & Crane Inc.:
Contributor, YC, 1/7, p.430

Silver Creek Precision Corp.:
Retooling, B, 3/31, p.155

Silver Star Chemical Corp.:
Compound controls aluminum etching, IE, 2/11, p.147
Starcote, treatment for aluminum, IE, 3/3, p.150
Stripper N, for cold strips coating, IE, 4/14, p.166

Simmons Co.:
Dedicates plant, Dallas, B, 3/17, p.167

Simmons Fastener Corp.:
Link-Lock device, IE, 4/7, p.198

Simmons Machine Tool Corp.:
Rebuilding machine tools (pictures), 6/23, p.54

Simonds Saw & Steel Co.:
Air hardening type die steel, IE, 1/21, p.99
Distributors, B, 3/10, p.233

Sinclair Refining Co.:
Contributor, YC, J. G. O'Neill Jr., 1/7, p.466

Sipe & Co., James B.:
Paint fence with long brushes, 3/10, p.158

Skilsaw Inc.:
Three hand grinder, IE, 6/30, p.111

Skinner Chuck Co.:
Film, chuck and uses, 4/28, p.95
Solenoid valve, IE, 4/7, p.203

Slip-On Inc.:
Liquid stainless steel, rust protector, 1/21, p.99

Sly Mfg. Co., W. W.:
Filter, Dynaclone, IE, 3/24, p.116

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Smith Co., Philip G.:
Adds plant, Detroit, B, 5/12, p.198

Smith Corp., A. O.:
Contributor, YC, 1/7, p.412
Expands, B, 3/31, p.155
Moves unit, B, 4/28, p.171

Smith & Mills Co.:
Changes hands, B, 2/18, p.191

Sneed Sales Co.:
Agent for, B, 5/26, p.175

Snyder Tool & Engineering Co.:
Rocker-fixture for cylinders, IE, 4/7, p.195
Rotary manifold processer, IE, 1/14, p.86

Solar Aircraft Co.:
Book, alloy steel welding, 5/19, p.103
Box strapping material cuts bandsaw blades, ENG, 6/16, p.95
Ceramic coatings, civilian use, 5/5, p.119
Defense contract, 3/3, p.55
Tools from Italy, 6/30, p.56
Opens office at Nashville, B, 4/21, p.167

Sondraker & Co., Gordon:
Formed, B, 2/11, p.171

South Bend Lathe Works:
Book, How to run a metalworking shaper, 5/19, p.94

South Chester Corp.:
Diameter drive rivet, IE, 5/19, p.158

South Coast Co.:
Minesweeper, Navy contract, B, 1/14, p.115

Southern States Steel Corp.:
Dallas facilities improved, B, 1/28, p.117

Southern Steel & Stove Co.:
Organized, B, 1/28, p.119

Southwest Products Co.:
Expands Duarte, B, 4/14, p.197
Plant, Monrovia, B, 6/30, p.139

Sparcatron Ltd.:
Organized, B, 6/16, p.217

Sparkler Mfg. Co.:
West Coast branch, B, 6/9, p.177

Spar-Tan Engineering Co.:
Licensed to use Vanderloy process, B, 1/28, p.119
Work heating surfaces reclaiming processes, 2/18, p.104

Spartan Aircraft Co.:
Aluminum expansion plan, 4/21, p.92

Spectalloy Inc.:
Moves, B, 4/14, p.195

Speer Carbon Co.:
International Graphite div. expands, 6/2, p.191
Reorganizes, B, 6/30, p.139

Sperry Gyroscope Co.:
Steering control [illegible], 2/4, p.67

Spot Inc.:
Core grinder added, 3/10, p.193

Sprague Electric Co.:
Adds Calif. branch, B, 2/25, p.157
Capacitor filters leads, IE, 1/28, p.80
Opens Dayton office, B, 1/28, p.119
Resistors meet military specs, 4/14, p.123

Spang Chalfant Div.:
See National Supply Co.

Spring Specialties Co.:
Collet chuck holds tools, IE, 2/18, p.162

Square D Co.:
Control station unit, tied service, IE, 4/7, p.203
Electronic welder control, IE, 4/21, p.136
Expands, B, 5/12, p.194
Knockouts cut installation time, IE, 3/31, p.127
Reversing drum switch, IE, 6/30, p.111

Stacey Bros. Construction Co.:
Consolidates units, B, 3/3, p.185

Stackbin Corp.:
Hopper-bin for small parts, IE, 4/28, p.138

Standard Electric Mfg. Co. Inc.:
Fan cuts fumes, vapors, IE, 6/30, p.104

Standard Electrical Tool Co.:
Tool grinder redesigned, IE, 3/10, p.200

Standard Gage Co.:
Gage inspects small bores, IE, 6/16, p.181

Standard Machinery Co.:
Cable take-up without gears, IE, 3/17, p.126

Standard Oil Co.:
Cutting fluid methods, 6/23, p.72
Lathe light cord attached, 5/26, p.132
Scrap collector, 2/25, p.58

Standard Pressed Steel Co.:
External wrenching nut, IE, 3/31, p.126
Locknuts hold at 550 F, IE, 2/18, p.167

Standard Railway Equipment Mfg. Co.:
Contract to McGraw, B, 3/10, p.233

Standard Steel Corp.:
Adds facilities, B, 5/26, p.175
Dryer used to reclaim slugs, chips, 5/19, p.136
Lab planned, B, 5/12, p.193
Welded stainless steel pipe, pl., 2/18, p.107

Standard Steel Fabricating Co. Inc.:
Opens plant, B, 3/10, p.233

Standard Thompson Corp.:
Buys castings firm, B, 6/30, p.141

Standard Wire & Cable Co.:
Moves, B, 6/16, p.217
Moves, B, 6/2, p.192

Staple Engineering Co. Inc.:
Honing line, IE, 6/23, p.130

Star Cutter Co.:
Moves, B, 1/7, p.571

Starrett Co., L. S.:
Agent named, B, 5/5, p.204

Steel Improvement & Forge Co.:
Contributor, YC, 1/7, p.246

Steel Co. of Canada Ltd.:
Adds slab furnace, B, 2/11, p.173
Expands, B, 2/4, p.207

Steel Mfg. & Warehouse Co.:
New offices, B, 3/3, p.185

Steel Service Inc.:
Moves branch to Steubenville, B, 1/28, p.117

Steep Rock Iron Mines Ltd.:
New ore body found, B, 5/5, p.204
Iron ore potential, 3/31, p.38

Sterling Electric Motors Inc.:
Drive mounting interchangeable, IE, 6/30, p.103
Motor drive on lathe, 3/10, p.172
Names agents, B, 2/11, p.175
Ohio plant opened, B, 1/14, p.119
Opens branch, New Orleans, B, 3/31, p.155
Variable speed units, IE, 3/17, p.141

Sterling Windows Inc.:
Sold, B, 3/31, p.155

Stewart Mfg. Corp., F. W.:
Opens L. A. plant, B, 5/5, p.206

Stewart-Warner Corp.:
Helical-wire insert method for thread repair, 2/18, p.102
Preheater starts cold engines, 6/16, p.169

Stokes Machine Co., F. J.:
Appointments, B, 3/10, p.233
Castings, pressure proof, 2/11, p.117
Punch die care booklet, 2/4, p.138

Stop-Fire Inc.:
Fire extinguisher, IE, 6/9, p.148

Stop-Rust Co.:
Rust preventive, IE, 1/14, p.87

Strom-Johnson Machinery Co.:
Book, heavy tools, 5/5, p.151

Strong, Carlisle & Hammond Co.:
Buys Oneida, B, 4/21, p.167

Studebaker Corp.:
Annual report, 3/24, p.53
Models, old-new, pic., 2/25, p.61
Vance, heads DPPC, 5/12, p.63

Sturdi-Bilt Steel Products:
Work benches, IE, 1/21, p.86

Sub-Zero Products:
Agent named, B, 5/26, p.173; 6/9, p.180

Sulphur Converting Corp.:
Plans Quebec plant, B, 4/14, p.193

Summerill Tubing Co.:
Rotary tube straightener, 4/14, p.135

Sun Oil Co.:
Cutting fluid applications, 6/23, p.76
Scrap collection, 1/14, p.37

Sun Shipbuilding & Dry Dock Co.:
Builds SS *Keystone Mariner*, 3/3, p.59

Sundstrand Machine Tool Co.:
Subcontracting, Gustafson addresses group, 5/5, p.72
Grinding machine abrasive belt, 6/9, p.91

Sundstrand Magnetic Products Co.:
Magnetic coolant separator, IE, 4/21, p.92

Super-Cold Corp.:
Complete plant, B, 3/24, p.151

Super-Cut Inc.:
Metzger reports diamond powder shortage untrue, 6/16, p.70

Super Electric Products Corp.:
Buys Union Spring and changes name, B, 4/21, p.167

Superdraulic Corp.:
Buys Fabricator, B, 2/18, p.191

Super-Grip Anchor Bolt Co. Inc.:
Toggle bolt, IE, 6/30, p.111

Superheater Co.:
Expands, B, 6/23, p.170

Superior Chrome Plating Co.:
Expands, B, 2/18, p.191

Superior Combustion Industries:
Stud welder, no drilling, 6/16, p. p.166

Superior Electric Co.:
Variable transformer, IE, 5/5, p.177

Superior Steel Corp.:
Clad steel bullet jackets, 1/21, p.68

Superior Steel & Malleable Castings Co.:
Casting redesign, 5/26, p.78

Superior Steel Products Corp.:
Guide pin ends punch holder binding, IE, 2/18, p.162

Superior Tube Co.:
Cathode alloy new, 5/19, p.144
Research on austenitics control, 6/9, p.98
Tubes capped for shipping, 5/12, p.139

Superweld Corp.:
Moves, B, 5/26, p.175

Surface Combustion Corp.:
Contributor, YC, 1/7, p.227
Furnace installed for J & L, stores carbon, 3/31, p.102

Swartwout Co.:
Names agent, B, 3/31, p.155

Sylvania Electric Products Inc.:
Buys two firms, B, 2/11, p.173
Contributor, YC, 1/7, p.442
Lighting maintenance, 3/3, p.133
Mass. plant, B, 4/7, p.229

T

Taco West Corp.:
Proportioning controller, IE, 2/11, p.144

Taft-Pierce Mfg. Co.:
Contributor, YC, 1/7, p.321

Taub Engineering Co.:
New offices, B, 6/16, p.219

Tay Holbrook Inc.:
Moves in Calif., B, 1/28, p.121

Taylor Instrument Cos.:
Expands facilities, B, 6/23, p.170

Taylor-Wilson Mfg. Co.:
Moves offices, B, 5/26, p.173

Taylor-Winfield Co.:
Expands, B, 4/14, p.193
Jet cones welded, 2/11, p.111

TelAutograph Corp.:
Instan-Form telescriber, 4/7, p.200

Tele-Vision Clock Corp. of America:
Automatic time calculator, IE, 6/30, p.115

Temco Aircraft Corp.:
New name, B, 4/21, p.167

Tempil Corp.:
Book, welding steel castings, 3/17, p.92

Templeton, Kenly & Co.:
Puller jack, "Jenny", IE, 1/14, p.82
Ratchet lowering lever jack, IE, 4/21, p.134

Tennant Co., G. H.:
Scarifier cleans trucking aisles, IE, 2/4, p.161

Tennessee Coal & Iron Corp.:
See U. S. Steel

Tennessee Eastman Co.:
Plastic pipe used in oil fields, 1/21, p.45

Tennessee Steel Corp.:
Steel plant, Oneida, Tenn., 3/3, p.50

Terrebonne Titanium Co.:
Titanium ore project, 3/10, p.82

Texas Co., The:
Antifriction bearing lubricant, IE, 1/21, p.95
Multifak grease, IE, 1/14, p.88
Wire rope lubricant, IE, 1/7, p.555

Texas Engineering & Mfg. Co. Inc.:
Danly forming press installed, pic., 1/14, p.35
Drills locked to jigs, 4/14, p.132
Elongating holes in tooling, IE, 1/28, p.89
Gaskets prevent shorting of motor switches, 3/24, p.89
Installs tanks, etc., pic., 2/4, p.62
Pattern-making from carbon paper, pic., 2/18, p.108
Pneumatic drawbar, 3/24, p.96
Prefab fence panels, 3/3, p.80
Renamed, B, 4/21, p.167
Welded tube feeder, pic., 3/17, p.112

Texas Tubular Products Inc.:
Expands, Owentown plant, B, 3/10, p.237

Thermo Electric Mfg. Co.:
Temperature control line, IE, 3/24, p.118

Thermoid Co.:
Belt loading care, 3/3, p.115

Thomas Associates:
Opens branch plant, B, 1/7, p.573

Thompson Electric Co.:
Adjustable angle fitting, IE, 4/7, p.198

Thompson & Son Co., Henry G.:
Atom-Lube, cutting tool lubricant, IE, 5/12, p.169

Thompson-Bremmer Co.:
Sold, B, 4/7, p.229

Thompson Products Ltd.:
Awards contract, B, 5/26, p.175
Crawford on WSB, 3/31, p.37
Cutting tool lubrication, 1/21, p.70
Titanium machined, Hi-Jet coolant-lubricant used, 1/21, p.25

Thor-Canadian Co. Ltd.:
Plant for Ont., B, 4/14, p.197

Tigerman Engineering Co.:
Mercury safety switch, IE, 6/30, p.112

Timken Roller Bearing Co.:
Card system indicates lubricants, 4/7, p.174
Contributor, YC, 1/7, p.251
Dryer handles large bearing assemblies, 3/24, p.94
Measures polished surfaces, 2/4, p.87
Silicon-chromium steel, closer hardenability control, article by: 4/7, p.114

Tinius Olsen Testing Machine Co.:
Low magnification strain units, IE, 2/11, p.142

Tinnerman Products Inc.:
Speed clip, IE, 6/9, p.153

Titanium Co. of America:
Formed, 4/7, p.87

Titanium Metals Corp. of America:
Expands, 3/17, p.59
Titanium stronger than steel, pic., 3/3, p.50

Titeflex Inc.:
Electric connectors, IE, 3/10, p.209
Formed, B, 2/11, p.173

Toledo Pipe Threading Machine Co.:
Anniversary, B, 3/31, p.157

Toledo Scale Co.:
Adds at Rochester, B, 6/23, p.169
Classifying scale, IE, 2/11, p.135

Tomkins-Johnson Co.:
Cylinders - cushion, sealing, IE, 2/18, p.164

Tonawanda Electric Steel Casting Corp.:
To move, B, 3/24, p.149

Tonawanda Platers Inc.:
Moves plant, B, 4/21, p.165

Topper Equipment Co.:
Builds plant, B, 6/16, p.220
Steam cleaners, IE, 5/19, p.147

Torcon Corp.:
Single-stage torque converter, IE, 2/4, p.165

Torrington Mfg. Co.:
Builds, Calif., B, 3/17, p.167
Slab mold, water-cooled, 2/11, p.122
Spring tester, IE, 4/14, p.153

Tour & Co. Inc., Sam:
Radiography, McElroy - McNutt process, 6/30, p.98

Towmotor Corp.:
Contributor, YC, 1/7, p.430
Lift attach. handles cartons, IE, 6/23, p.130
Overhead fork truck guard, IE, 6/16, p.188
Safety kit posters, 2/4, p.129
Truck has built-in generator, IE, 2/11, p.135

Townsend Co.:
Builds rivet plant, B, 3/17, p.165

Tracerlab Inc.:
Meter monitors radiation, IE, 3/24, p.107

Trackson Co.:
Sold, B, 1/7, p.575

Tracto-Lift Co.:
Tractor-type lift, IE, 4/14, p.149

Trailmobile Canada Ltd.:
Expands, B, 2/18, p.195

Transall Inc.:
Sectional belt conveyor, IE, 3/17, p.136

Transmares Corp.:
Embossing presses imported, 5/26, p.129

Trenton Steel Corp.:
RFC application withdrawn, 6/16, p.71

Trimedge Inc.:
Expansion plans, B, 1/7, p.571

Trion Inc.:
Electrostatic filtration: Dust from air, 5/5, p.105

Tripar Products Inc.:
Roof-type ventilator, louvers automatic, IE, 4/14, p.160

Tropical Paint & Oil Co.:
Paint protects metals, IE, 1/14, p.87

Trundle Engineering Co.:
Contributor, YC, 1/7, p.257

Tube Reducing Corp.:
Folder describes hot forming, 2/18, p.145

Tulsa Compressed Steel Corp.:
Chartered, B, 2/4, p.205

Turbo Products:
Builds at Wilmington, B, 3/17, p.167

Turco Products Inc.:
Dye penetrant, IE, 5/12, p.164

Turner Bros. Inc.:
Indexing table, IE, 2/18, p.160

Tuschman Steel Co.:
Warehouse, B, 5/19, p.190

Tweco Products Co.:
Electrode holder, IE, 6/9, p.150

Twin Coach Co.:
Leases Buffalo plant, B, 6/30, p.141

U

U. & S. Inc.:
Agent named, B, 2/18, p.191

Uddeholm Co. of America Inc.:
Opens L. A. branch, B, 3/31, p.157

Udylite Corp.:
Adds lab, B, 3/17, p.167

Ultrasonic Corp.:
Buys Monitor, B, 4/21, p.167

Union Carbide & Carbon Corp.:
Electromet furnaces, Marietta, pic., 1/14, p.28
Electromet expands, B, 3/31, p.157
Electromet moves L. A. office, B, 4/21, p.167
Haynes Stellite book, alloy parts wear, 3/10, p.172
Steel checked for carbon, 3/3, p.126
Unecon cutting fluid, IE, 6/2, p.159

Union Die Casting Co.:
Expands, B, 4/14, p.193

Union Spring & Mfg. Co.:
Purchased and name retained, B, 4/21, p.167

Union Steel Co.:
Adds facilities, B, 6/30, p.139
To build, B, 1/7, p.573

Union Tool Corp.:
Die lift table, IE, 5/12, p.162

Union Twist Drill Co.:
Twist drills, IE, 4/21, p.136

United Aircraft Co.:
Abrasive belt, blade grinder, 6/9, p.92
Broaching machine cuts disc, pic., 6/2, p.69
Nickel-aluminum bond, 3/31, p.85
P&W German lathes, pic., 2/18, p.66
P&W welding machines, pic., 6/30, p.144

United Chromium Inc.:
Chromium plating process, 3/31, p.77
Contributor, YC, 1/7, p.415

United Engineering & Foundry Co.:
Press for Alum-Seal, 5/12, p.70
Youngstown Sheet & Tube order, 1/21, p.44

United Geophysical Co.:
Instrument plant added, B, 1/14, p.117

United Laboratories Inc.:
Masonry paint, IE, 5/19, p.163
Rust inhibitor, IE, 1/7, p.552

United Lacquer Mfg. Corp.:
Black primer, fast drying, IE, 2/11, p.147

United States Air Conditioning Corp.:
Culbertson new agent, B, 4/14, p.195
Export dept., B, 4/7, p.231
Merges office, B, 3/24, p.149
Self-contained air conditioner, IE, 5/5, p.170
Telephone switchroom requirements, 2/11, p.126

U. S. Electrical Motors Inc.:
Ballomatic backstop, IE, 3/3, p.150
Explosion-proof motor, IE, 2/25, p.124
Movie, 5/26, p.107
Test stand with dual head, IE, 3/24, p.113

U. S. Plastic Co.:
Expands, B, 2/25, p.157

United States Rubber Co.:
Chemical stabilizer for synthetic rubber, 6/2, p.126
Gold surfacing control, 3/31, p.80
Latex plant, L.A., B, 4/7, p.227
Stainless conveyor belts, 2/4, p.123

United States Steel Co.:
AISI to be addressed by Dr. Bain, 4/21, p.55
Austin gives Orton lecture, 4/21, p.116
Blast furnaces, top pressure blowing, 3/3, p.84
British Columbia papers filed, 1/14, p.18
Chapple addresses fabricators, 5/5, p.70
Chapple warns of low inventory, 2/4, p.51
Cleaning blast furnace ferromanganese, 3/10, p.180
Contributor, YC, 1/7, p.224
Earnings—sales, 2/4, p.61
Executives scan NPA, OPS reg.s, pic., 2/18, p.71
Expansion at Torrance soon, 3/10, p.80
Fairless honored by engineers, B, 6/2, p.189
Fairless iron ore scheduled, 3/10, p.79
Fairless Wks. riveter, pic., 6/23, p169
Fairless plant capacities, 3/10, p.79
Gary coil handling tongs, pic., 3/3, p.84
Gerrard Steel Strapping moves, B, 1/7, p.573
Hardening characteristics, method predicts, 5/26, p.118
Michigan Limestone consolidates, B, 2/25, p.155
National Tube furnace, 5/26, p.107
National Tube, Morrisville facilities, 3/10, p.80
National Tube, bessemer uses oxygen, ENG, 1/14, p.53
Oil Well Supply improves facilities, B, 6/23, p.169
Olds reaffirms stand in steel dispute, retirement address, 5/12, p.60
Oliver Iron Mining bids for Ontario ore, 6/16, p.69
Oliver mines taconite, 3/17, p.65
Ore carrier, *Arthur M. Anderson*, pic., 2/25, p.48
Pittsburgh Steamship closes ship supply station, B, 5/5, p.206
TC&I farm products div. discontinued, B, 1/14, p.115
TC&I award to Blaw-Knox, B, 6/23, p.167
TCI to use Lake Superior ore, 2/4, p.62
Turbo-hearth may aid south, 5/5, p.139
Utah-Intermountain office moves, B, 3/31, p.159
Zimmerman: Steel research keeps pace, 5/12, p.108

U. S. Stoneware Co.:
Vinyl primer for rusted steel, IE, 2/11, p.142

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

United Stove Co.:

Truck attach. lifts shipping, 4/28, p.122

Universal Drafting Machine Corp.:

Drafting machine scales, IE, 3/31, p.128

Universal Engraving & Colorplate Co. Inc.:

Consolidates Buffalo-Rochester, B, 4/21, p.163

Utah Construction Co.:

Peruvian iron ore, 3/10, p.70

Utah Power & Light Co.:

Boiler drum hoisted, pic., 2/25, p.58

Utica Drop Forge & Tool Corp.:

Edge tester gages plier quality, IE, 6/30, p.111
Plier snip, IE, 3/31, p.127
Plier, parallel-action, IE, 4/7, p.200

V

V & O Press Co.:

Appoints agent, B, 1/7, p.575
Contributor, YC, 1/7, p.298

Vacuum Metals Corp.:

Formed, B, 4/7, p.231

Vanadium Alloys Steel Co.:

Contributor, YC, 1/7, p.280

Vancouver Steel Co.:

Furnace expansions, B, 1/7, p.577

Van der Horst Corp.:

Bearing surfaces reclaimed process, 2/18, p.104

Vapor Engineering Corp.:

Expands plant, B, 6/2, p.192

Varian Associates:

Plans lab, B, 6/9, p.180

Varnish & Insulator Co.:

Tiny wire covering, ENG, 6/2, p.91

Vascoloy Ramet Corp.:

Expands, B, 6/23, p.167
Warehouse, Birmingham, B, 6/2, p.191

Velan Engineering Co.:

Steam trap, IE, 3/24, p.123

Vendorlator Mfg. Co.:

Plant completed soon, B, 3/24, p.151

Verson Allsteel Press Co.:

Contributor, YC, 1/7, p.295

Viber Co.:

Mounting clamp, IE, 4/7, p.198

Viking Industries:

Bench type surface grinder, IE, 2/11, p.135
Hydraulic speed mill, IE, 3/3, p.142
Magnetic chucks, IE, 2/18, p.160
Turret lathe attachment, IE, 6/9, p.145

Vinco Corp.:

Buys Industrial Stamping, B, 6/30, p.139

Volkert Metal Stampings Inc., John:

Pattern punch, pic., 3/24, p.51

Vonnegut Corp.:

Abrasive belt for jet finishing, 6/9, p.91

W

W. C. Products Inc.:

V-belt molded sheaves, IE, 6/9, p.148

Wade Tool Co.:

Precision profiler, IE, 5/12, p.154

Wagner Bros. Inc.:

Adds to plant, B, 4/28, p.167

Wales-Strippit Corp.:

Expands, B, 1/7, p.575
Hole-punching unit, IE, 5/19, p.148
Punch and die holder, IE, 6/9, p.146

Walker Inc., O. S.:

Contributor, YC, 1/7, p.322

Wallace & Co., L. R.:

Coating machine, IE, 4/7, p.195

Walton Co.:

Tool holder rights acquired, 4/14, p.120

Walt. Furnace Co.:

Heat-treating furnace, pic., 6/16, p.69
Heat-treating furnace, IE, 3/24, p.113
Heat-treating small tools, IE, 1/21, p.85

Ward Leonard Electric Co.:

Chrome plating tool, IE, 4/21, p.123
Miniature power-type resistor, IE, 5/12, p.163
Moves at L. A., B, 4/28, p.169

Ward Machinery Co.:

Calculator shows ton-pressure, 2/18, p.128

Warner Electric Brake & Clutch Co.:

Demonstration unit, IE, 6/2, p.162

Warner & Swasey Co.:

Cutting fluid applications, 6/23, p.60
Manual machine tools, 6/9, p.134
Tooling Versatility, 3/10, p.108

Warner Electric Brake & Clutch Co.:

Calculator specifies brake, clutch needs, 4/21, p.88
Heavy industrial brake, IE, 2/25, p.126

Warren Machine & Die Co.:

Becomes div., B, 1/21, p.125

Warren Welding Works:

Builds shop, B, 4/21, p.163

Washington Aluminum Co. Inc.:

Expands, B, 2/11, p.171

Waterbury-Farrel Foundry & Machine Co.:

Sendzimir mill precision rolls ultrathin strip, 4/7, p.119

Weather-Wise Window Co. Inc.:

Moves, B, 5/5, p.206

Webb Co., Jervis B.:

Contributor, YC, 1/7, p.434

Webber Appliance Co. Inc.:

Agent named, B, 3/24, p.149

Weber Showcase & Fixture Co.:

Contract from Douglas Aircraft, B, 3/31, p.155

Webster-Chicago Corp.:

Leases plant, B, 2/25, p.155

Weiger Weed & Co.:

Spot welding electrode, IE, 5/26, p.146

Weir Kilby Corp.:

Adds space, B, 1/21, p.123

Weirton Steel Co.:

Contributor, YC, 1/7, p.404
Detinning more scrap tin, 1/28, p.70
Furnace gas fires boiler, IE, 4/14, p.198

Welch Mfg. Co.:

Raydyne balancing machine, IE, 4/28, p.132

Welded Carbide Tool Co.:

Hot pressing applications, 5/26, p.80
Kuzmick addresses Metal Powder Assn., 5/5, p.73

Welding Service & Supplies Co.:

Spot welder portable, IE, 5/26, p.144

Wellman Co., S. K.:

Powder metallurgy processes, pic., 4/28, p.56

Wellman Bronze & Aluminum Co.:

Opens new offices, B, 3/24, p.151

Wellman Engineering Co.:

Venezuelan contract, B, 3/10, p.233

Wel-Met Co.:

Ferro plans 50% interest, B, 3/10, p.233; plans 100% interest, 4/28, p.171
Metal powder bearings folder, 5/5, p.152

Wesson Co.:

Lathe tool holder, IE, 1/14, p.91

West Coast Electronics Co.:

Expands, B, 4/14, p.195
Moves, B, 6/2, p.189

Westberg Co., E.:

Mandrel holds workpiece, IE, 1/28, p.88

Westcott Chuck Co.:

Appoints agent, B, 5/12, p.198

Western Electric Co.:

Air conditioning ducts, pic., 3/10, p.89
Leases bldg., B, 3/3, p.183

Westinghouse Electric Corp.:

Airfoil, bladed fans, tests, 2/4, p.141
Appliances retail prices upped, 4/7, p.78
Awards presented, B, 4/7, p.231
Baltimore plant by July, B, 4/28, p.171
Book, electrical data rev., 3/3, p.118, testing 3/3, p.104
Book, furnace equip., 2/11, p.126
Book, Harnessing Heat, 3/10, p.140
Book, motor applications, 6/9, p.136
Book, motor line, 3/24, p.86
Book, preventive maintenance, 4/21, p.110
Brazing alloy, paste form, IE, 6/9, p.146
Business '52 prospects, YC, 1/7, p.522
Business outlook '52 sales, not production, 3/3, p.49
Buys bldg., B, 3/3, p.185
Computer tests motor design, 2/4, p.87
Condenser welding time cut, 4/28, p.106
Constructs N. C. plant, 6/2, p.75
Contributors, YC, 1/7, p.232, 242, 310
Cost-of-living boost, 5/26, p.50
DC contactors, IE, 1/7, p.555
Electric power boom forecast, Monteith, 5/5, p.130
Electronics for defense leases plant, 3/3, p.55
Furnace brazing: S. Damon, 5/5, p.102
Jet alloys toss challenge to machine tools, article, 4/28, p.76
Kaiser Alum. order, 6/2, p.75
Kits, spare parts, IE, 2/4, p.176
Lab for turbine dev., 5/19, p.94
Lifeboat, radio controlled, 2/25, p.58
Locomotive ignitron rectifier, ENG, 4/7, p.113
Luminaire, IE, 3/24, p.120
Machine tool forum, Tel Berna addresses, 4/7, p.89
Magnetic amplifier system for random mill, 2/18, p.120
Marden, Dr., award for new alloy, 6/30, p.56
MOtor-NEtwork-CAlculator, pic., 1/28, p.41
Opens Pittsburgh sales office, 3/24, p.149
Oven at Buffalo, varnish insulation, 4/14, p.132
Panel mounting rack, IE, 4/14, p.166
Pittsburgh Steel award, 1/28, p.28
Plant for Vicksburg, B, 6/30, p.142
Potential transformers, IE, 6/16, p.182
Railroad electrification: Brecht, 5/5, p.151
Rectifiers ordered, 3/17, p.59
Resistance welding controls, 1/28, p.68
Small motor plant, Union City, Inc., 2/4, p.205
Sound lab, acoustical research, 6/23, p.109
Stainless paint for equip., ENG, 1/28, p.63
To build meter plant, B, 6/9, p.182
Turbines for gas pipeline pumping, 5/26, p.130
Turbines (gas), Hague addresses engineers, 4/14, p.129
Unit renamed, B, 3/3, p.183
Winding tech. for insulation, 5/26, p.124

Westmoreland Manganese Corp.:

Plans beneficiating plant, B, 4/7, p.227

Weston Electrical Instrument Corp.:

Current source for instrument, IE, 5/5, p.161
Moisture gage meter, 4/14, p.126

Wharton & Wilcocks of America Inc.:

Jigs assembled from kits, 3/17, p.110

Wheelco Instruments Co.:

Sold, B, 4/7, p.231

Wheeler Mfg. Co., C. H.:

Breaks ground, Philadelphia plant, pic., 3/17, p.167

Wheeling Corrugated Co.:

Cast refractory metal, 3/10, p.160
Steel deck, 4/7, p.146

Wheeling Steel Corp.:

AISI paper, Snyder, 5/26, p.88
Earnings report, 2/4, p.61
Nail plant, pic., 3/13, p.157
Scrap baler, 2/25, p.106
Scrap program speeded, 1/21, p.69
Skelp leaves furnace, pic., 6/16, p.219
VPI (volatile corrosion inhibitor), 2/25, p.83

White Motor Co.:

Builds on Coast, B, 3/3, p.181
Dump truck for Air Force, 5/5, p.133

White Pine Copper Co.:

To build, B, 3/24, p.147

White-Roth Machine Corp.:

Single-cylinder diesel engine, IE, 6/2, p.152

Whitin Machine Works:

Acquires Howard & Bullough, B, 3/31, p.155

Whiting Corp.:

Contributor, YC, 1/7, p.222
Duplexing, booklet, 3/31, p.104
Trackmobile positions coal cars, 5/12, p.138

Whitney Chain Co.:

Builds plant, Hartford, B, 1/28, p.119
Chain needs no lubrication, 6/16, p.158

Whitnon Mfg. Co.:

Ball bearing spindles, IE, 5/12, p.164

Whiton Machine Co.:

Chuck jaw-set, IE, 3/24, p.118

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

Wiegand Co., Edwin L.:

Electric heaters, IE, 4/7, p. 198
Portable heating unit, IE, 2/4, p. 176
Radiant oven panels, 6/23, p. 77

Wilcox-Gay Corp.:

Adds agent, B, 6/30, p. 144

Willard Storage Battery Co.:

Anniversary, B, 3/24, p. 147
New plant, Allentown, B, 6/23, p. 167

Williams & Co., J. H.:

Magnetic driving device, IE, 5/12, p. 166
Setup accessories, IE, 6/23, p. 143
To expand, B, 5/19, p. 187

Willson Products Inc.:

Contributor, YC, 1/7, p. 439
Safety goggle, IE, 6/16, p. 189

Wilshire Power Sweeper Co.:

Power sweeper, IE, 5/12, p. 156

Wilson & Co.:

Cathodic system shields piping, 2/4, p. 144

Wilson Refrigeration Inc.:

Moves, B, 5/26, p. 176

Wilton Tool Mfg. Co.:

Cam acting vise, IE, 4/21, p. 134

Willys-Overland Corp.:

Aero Willys debut, "Ace" 4/7, p. 100
Aero-Willys shown, 1/21, p. 47
Forging plant, Erie, reopened, 1/14, p. 29
Metal stitching gas-tank straps, 2/25, p. 112
Millionth jeep, B, 4/7, p. 229
Station wagon ready, 4/14, p. 78

Winter Products Inc.:

Staking press, IE, 4/4, p. 159

Wisener-Rapp Co. Inc.:

Leases space, B, 1/7, p. 577

Wolf & Co.:

Absorbed by Joseph Co., B, 1/28, p. 121

Wolff & Co., Benjamin:

Warehouse enlarged, B, 5/12, p. 193

Woodall Industries Inc.:

To build Calif. plant, B, 5/19, p. 189

Woods & Co., A. C.:

Renamed, B, 4/21, p. 163

Woodward Co.:

Warehouse added, B, 1/14, p. 117

Worcester Pressed Steel Co.:

Contributor, YC, 1/7, p. 290

World Tankers Inc.:

Oil tankers ordered, 2/25, p. 51

Worthington Corp.:

Redesignates plant, B, 5/19, p. 187

Worthington Pump & Machinery Corp.:

Name changed, B, 4/7, p. 231

Wright Air Development Center:

Radio transmitter-receiver set for use in "lifeboat", 2/25, p. 58

Wyatt Metal & Boiler Works:

Planer installed, 3/10, p. 152

Wysong & Miles Co.:

Open back punch press, IE, 1/21, p. 91

X, Y, Z

Xcelite Inc.:

New name, B, 1/21, p. 125

Yale & Towne Mfg. Co.:

Contributor, YC, 1/7, p. 436
Drum handling attach., IE, 6/23, p. 127
Hand lift pallet trucks, IE, 1/21, p. 92
High-lift platform truck, IE, 5/19, p. 148
Metals replace brass, 1/28, p. 38
Truck - dump hopper, IE, 5/12, p. 159

Yoder Co.:

Contributor, YC, 1/7, p. 316
N. Y. office, B, 4/7, p. 227

Yolo Steel & Metal Co.:

Pig iron plant certificate, 3/10, p. 80

York Co.:

Machine tool contracts, 1/21, p. 38

York Iron Works:

Organized, B, 1/28, p. 117

Yorkshire Electric Transformer Co., Ltd.:

Adds transformer plant, B, 5/12, p. 195

Young Spring & Wire Co., L. A.:

Subcontracts, 5/5, p. 74

Youngstown Foundry & Machine Co.:

Contributor, YC, 1/7, p. 376

Youngstown Sheet & Tube Co.:

Blast furnace, top pressure blowing, 3/3, p. 84
Contributor, YC, 1/7, p. 223
Expansions listed, 3/10, p. 79
Steel controls urged by Purnell, 2/11, p. 53
Strikers' insurance assured, 6/23, p. 44
United Engineering order, rolling mill equip., 1/21, p. 44

Zenith Mfg. & Chemical Corp.:

Intro-Met-machine, cleans instruments, IE, 5/5, p. 172

Zernickow Co., O.:

Tachometers, IE, 6/16, p. 189

Ziv Steel & Wire Co.:

Opens warehouse, B, 4/14, p. 193

Zurn Western Service Inc.:

Adds agent, B, 2/11, p. 175; 2/18, p. 193

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*; YC—*Yearbook Comment*

AUTHOR INDEX

A

Agnew, Charles E., Blast furnace practice Part IV Influence of coke ash on thermal effects 2/4 p.98. Part V Comparison of operating data 2/11 p.97. Part VI (continued) Generation recovery and use of heat 2/18 p.112, 2/25 p.88, 3/10 p.118, 3/17 p.98. Part VII Comparative values of fluxing stones 3/24 p.90. Part VIII Slag composition research 3/31 p.86. Part IX (continued) Raw materials problem 4/7 p.121, 4/21 p.98, 4/28 p.84. Part X Beneficiation of raw materials 5/19 p.106. Part XI (continued) Beneficiation of air 6/2 p.102, 6/9 p.106, 6/16 p.112, 6/23 p.82

Altwicker, H. J. and K. F. Braeuninger, Wright Field Air Materiel Command. Steel extruding — puts the squeeze on conventional forming 3/17 p.88

Allen, Arthur H., technical business consultant, Cleveland Tool engineer — His imagination pays off in production 3/10 p.106

Amen, N. C., Imperial Oil & Grease Co. Inc. Metallic lubricants 3/24 p.86

Anderson, Eugene F., American Wheelabrator & Equipment Corp. Laboratory tests select best blast cleaning method 1/21 p.62

Austin Jr., William W., Southern Research Institute. Desulphurization —worth watching 1/28 p.76

B

Baker, Sam, assistant editor STEEL Powdered metals Old art new science 4/28 p.56

Barnes, John R., Republic Steel Corp. High top pressures for smoother furnace operation 3/3 p.89

Beall, F. W., Armco Steel Corp. Stainless brazed without fluxing 1/14 p.57

Behr, Fred, North American Philips Co. Inc. X-ray fluorescence analysis — nondestructive testing at shop level 3/24 p.70

Bell, Vance, associate editor STEEL Aluminum: Heavy expansion in a light metal 2/4 p.69

Birdsall, G. W., Reynolds Metals Co. Extrusion plus forging simplifies aluminum forming 1/14 p.54

Blackman, Bernard, Riverside Metal Co. Precision spinning — solves forming problem 3/24 p.68

Bowen, F. J., Kaiser Aluminum & Chemical Corp. Spot testing aluminum alloys 1/28 p.67

Bozsin, Michael, Ferro Corp. Firing temperatures controlled 2/25 p.82

Braeuninger, K. F. and H. J. Altwicker, Wright Field Air Materiel Command Steel extruding 3/17 p.88

Bray, J. L., Purdue University Minor metals are major issue 4/21 p.80

Burch, Gene, Clinton Machine Co. Disintegration becomes production necessity 1/14 p.60

C

Chase, Herbert, Stampings formed faster 2/4 p.90
Transmission assemblies are welded automatically 4/28 p.74

Crede, Charles E., Barry Corp. Toned-down noise 2/25 p.76

D

Damon, Samuel, Westinghouse Electric Corp. Furnace brazing, 5/5 p.102

D'Arcambal, Alexander H., Pratt & Whitney div., Niles-Bement-Pond Co. Alloy Conservation: Boron fills the bill 2/18 p.107

Davis, E. F. and E. L. Layland, Westinghouse Electric Corp., Nodular cast iron welds hard to machine 6/23 p.78

DeHuff, P. G. and D. C. Goldberg, Westinghouse Electric Corp. Jet alloys toss challenge to machine tools 4/28 p.76

Drahos, F. R., Byron Jackson Co., Shielded submerged arc welds withstand rugged service 4/14 p.94

Dunn, J. H. and E. P. White, Aluminum Alloys: Automakers may use more 5/19 p.95

Durkin, A. E., General Electric Co. Hydrogen causes embrittlement of forged compressor blades 3/24 p.76

E

Eaton, J. Van, Mechanical die feeds — more production less effort 3/17 p.96

F

Frank, Ralph H., Sperry Products Corp. Ultrasonics — Inspection applications grow 6/16 p.99

G

Gibadlo, Frank, Process Chemical Specialties Rare metals require precision furnacing 3/3 p.76

Gillespie, J. S. and L. L. Wallace, Carboloy Department, General Electric Co. Cemented carbide families grow 4/21 p.84

Goepfert, George, Ross Gear & Tool Co., Production heat treating steering assembly parts 2/11 p.82

Goldberg, D. C. and P. G. DeHuff, Westinghouse Electric Corp. Jet alloys toss challenge to machine tools 4/28 p.76

Graham, J. D., International Harvester Co. Heat Treating boron steels — machinability can be improved 5/12 p.94

Gruberg, Leon D., Felt Association Felt for finishing — Metalworking applications expand 2/4 p.88

H

Hall, Robert E., assistant editor STEEL. Planned to produce — New plant ideas pay off for Lincoln 2/4 p.92

Hall, R. G. and S. L. Johnson, Minnesota Mining & Mfg. Co., Smooth finish for strip — moving abrasive produces it 3/3 p.82

Hiler, Malvern J., Commonwealth Engineering Co. of Ohio. Planned research, profitable business insurance 4/21 p.85

Huber, R. F., assistant editor, STEEL. Proper cutting fluids can step up machining 6/23 p.72

Hyler, John E., More zip for strip handling 2/18 p.94

I

Isenberg, S. and B. C. Schott, Timken Roller Bearing Co. Closer hardenability control for silicon-chromium steel 4/7 p.114

J

Johnson, S. L. and R. G. Hall, Minnesota Mining & Mfg. Co. Smooth finish for strip — moving abrasive produces it 3/3 p.82

K

Karpick, Ed., associate editor, STEEL. Jet engine machining problems licked by special lathes, 2/11 p.86
Palletized machining speeds flow of tank transmissions, 3/10 p.115
Production gaging: Maximum accuracy at minimum cost, 5/12 p.88

Keeleric, George, United Drill & Tool Corp., Electrolytic grinding: Stubborn alloys less formidable 3/17 p.84

Kennedy, C. W., Federal Products Corp., Quality Control — You'll need a system 5/19 p.90

Knowlton, H. B., International Harvester Co., What boron steels to use and why 3/24 p.84

Kuperschmid, Norman, Octagon Process Inc., Accelerated phosphate coating 5/12 p.92

L

Large, W. E., Westinghouse Electric Corp., How to get more out of resistance welding control 1/28 p.68

Layland, E. L. and E. F. Davis, Westinghouse Electric Corp., Nodular cast iron welds hard to machine 6/23 p.78

Longworth, W. J., E. F. Hauserman Co., Flexibility key to production control system 3/3 p.81

Lucht, Fred W., Carboloy Department, General Electric Co., Carbide trepanning 3/31 p.74

M

Mackasek, Edward, Porcelain Enamel Institute. Possibilities in porcelain enamel, 4/7 p.116

McArthur, B. E., Magnethermic Corp. Plug-in induction heating 4/7 p.118

McLaughlin, J. Karl, Behr-Manning Corp., Coated abrasives ease jet blade finishing problems, 6/9 p.90

Miller, R. R., Precision Metalsmiths Inc. Investment casting, 1/14 p.58

Moeers, A. B., General Motors Corp., Machinery changes revitalize sheet metal plant 2/25 p.78

P

Paret, Richard E., American Iron & Steel Institute Chrome Stainless: Easing the pinch 4/28 p.79

R

Reardon, E. J., Superior Steel Corp. Clad steel bullet jackets conserve copper and zinc 1/21 p.68

Riley, F. E., Tooling can be cheaper 2/18 p.98

Ruhnke, Donald H., Republic Steel Corp. Boron steels supplement scarce nickel moly alloys 1/14 p.66

S

Scarlott, Charles A., Westinghouse Electric Corp., Titanium: Big production gains 6/30 p.76

Schott, B. C. and S. Isenberg, Timken Roller Bearing Co., Closer hardenability control for silicon-chromium steel 4/7 p.114

Shaw, R. B., Allegheny Ludlum Steel Corp., Accurate methods for computing electric furnace heats 1/21 p.72

Singleton, Robert C., Gregory Industries Inc., Insulation lengthens skid tube life 2/18 p.101

Smith, V. W., G. W. Smith & Sons Inc., Die lubricants smooth performance 6/30 p.82

Sund, F. R., Barber-Colman Co., Production reaming: Fine finishes faster 6/16 p.96

T

Turner Jr., Charles A., Selas Corp. of America, Annealing accelerated with radiant heat 4/14 p.106

W

Wallace, L. L. and J. S. Gillespie, Carboloy Department, General Electric Co. Cemented carbide families grow 4/21 p.84

White, E. P. and J. H. Dunn, Aluminum Alloys: Automakers may use more 5/19 p.95

Willi Jr., Albert, Federal-Mogul Corp., Copper-lead bearings developed for slow speed diesels, 2/4 p.94

Code B Briefs, ENG *Engineering and Production News*, IE *Industrial Equipment*, YC *Yearbook Comment*

STEEL

EDITORIAL INDEX

for

VOLUME 131

July 1 to December 31, 1952

Subject Index 3
Company Index . . . 20
Author Index 36

THE PENTON PUBLISHING COMPANY
Penton Building, Cleveland 13, Ohio

SUBJECT INDEX

A

Adhesives:
Adhesive for shell mold process ENG, 9/1, p.81
Vacuum evaporation, metal technique, 8/11, p.110
See Tape

Abrasives:
Abrasive belt strapping tape, 9/15, p.136
Abrasive belts reclaimed by pressure blasting, ENG, 12/8, p.93
Airbrasive cuts metal, 7/14, p.112
Coated abrasives for tapered aircraft skins, 8/25, p.98
Coated abrasives grind down costs (A special report), 8/25, p.92
Coated abrasive polishing belt, IE, 9/15, p.171
Rubber wheels give free-cutting action, IE, 12/22, p.97
Walnut shells clean tire molds pic., 12/1, p.180
Waterproof sandpaper, IE, 9/15, p.168

Africa:
Platinum increased, 12/29, p.45

Air:
Air cylinder, IE, 8/11, p.133
Air transformer, IE, 9/8, p.142
Air work feeder, IE, 9/1, p.120
Busses exhibit air cylinders, 9/8, p.132
Compressed air steps up production, 10/27, p.76
Compressor, two-stage, IE, 8/25, p.125
Compressors, portable, IE, 9/29, p.121
Blower, IE, 12/1, p.131
Compressed air system, leaks checked, 9/15, p.117
Switch shows tank pressure, 12/8, p.116
See Pollution

Air Conditioning:
Aluminum foil covers air ducts pic., 10/13, p.372
Auto use seen, 11/10, p.84
Auto use, DeSoto, 12/29, p.57
Chicago Amphitheatre, 7/21, p.51
Evaporative condenser line, IE, 12/29, p.95
S. S. *United States*, 7/21, p.128
Sheaffer Pen plant, 9/8, p.59
Unit clears gunsights, commercial use underway, ENG, 11/3, p.91

Air Force:
Aircraft, quality vs quantity, 10/6, p.47
Heavy press program:
  Alcoa presses, pic., 12/1, p.52
  Contract, Newark, 8/18, p.175
  Contractors (chart), 12/1, p.78
  Die block need, 12/8, p.66
  Die block conference, 10/20, p.65
  Die block study, NPA, 10/27, p.50
  Die blocks: Problem, ENG, 10/27, p.71
  First phase requirements, 10/20, p.65
  German presses, 10/20, p.65
  Heavy presses challenge industry, 12/1, p.76
  Pit holds presses, pic., 12/15, p.204
  Schedule slow, 11/17, p.49
  Transportation a problem, ENG, 11/17, p.85
Machine tool shortage: Specialized, 7/21, p.61
Titanium use (see Titanium)

Air Pollution & Smoke Prevention Assn. of America Inc.:
Shortens name, B, 8/11, p.157

Aircraft:
Airframes, tooling project, 10/6, p.80
Air freight, 12/29, p.46
Altitude test chambers, 9/8, p.96
Aluminum fuel tanks all-welded, 7/28, p.81
Anti-aircraft radar hauled in magnesium trailer, 11/10, p.129
Appropriations (see Defense)
Carriers have jet oxygen plant, 8/25, p.116
Coatings (see Finishes, Coatings, Paints)
Colored tags identify, 11/3, p.194
Convair loads freight, pic., 12/29, p.46
Defense turns back to steel for weight reduction metal, 11/24, p.76
Defense urges step up, 7/28, p.50
Design simplified, Air Force-Navy, 11/17, p.49
Exhaust gas powers propeller, 12/8, p.119
Helicopters: Market up, 7/14, p.60
High temperature metals, jetomic age demand, 11/3, p.98
International Aviation Expo, Detroit, 9/8, p.72
Inventory excess stocks, 8/11, p.59
Jets (see Engines)
Landing, treadmill studies, 11/17, p.144
Military appropriations through '55, 12/1, p.39
Military output, quality not quantity, 10/6, p.47
Military plans, 11/24, p.61
Rolled T-sections cut part costs, 12/8, p.104
Rotor blade strain measured, 7/28, p.77
Rotor blades for Piasecki helicopter made of compressed-formed spar tubes, 10/13, p.253
Rotor blades-Piasecki, pic., 8/11, p.60
Sapphire Jet schedules, 10/20, p.66
Sapphire, production problems, 12/22, p.40
Skin forming studied, ENG, 11/24, p.97
Special stainless for jet structurals, ENG, 8/11, p.83
Starfire, Lockheed warplane, pic., 7/14, p.180
Stencil aids dial painting, 12/29, p.85
Super Constellation, construction pics, 12/29, p.48 and 133
Supersonic flight, heat wall obstacle, (box), 12/8, p.117
Supersonic, jet afterburners, pic., 10/20, p.102
Titanium (see)
Turbine aircraft, 600 mph future, 11/17, p.141
Unit output and military, chart, 12/29, p.47
Westinghouse engine for Navy, ENG, 10/27, p.71
Youngstown Airways, service plan for company-owned planes, 11/24, p.74
See Machining
See Standards

Aircraft Industries Assn.:
Aircraft production plans, 10/6, p.47

Alaska:
Alcoa may seek partner for project, 9/8, p.57
Dredge for Lake Eklutna, 9/15, p.200

Allotments:
See CMP, IMC, PAD

Alloys:
Alloy adds life to sheet rolls, 12/29, p.90
Alloy "combine" strength, ENG, 11/10, p.97
Alcoa weldable alloy, ENG, 12/8, p.93
Chase Brass, phosnic bronze, 11/3, p. 119; copper-base, 11/3, p.135
Cond-Al for turbines, 9/15, p.143
Cond-Al turbine, GE engineers inspect, pic., 9/22, p.82
Constructural alloys, AISI lists, 11/17, p.90
Heat resistant for castings, Battelle, ENG, 8/11, p.83
High-temperature paper, AISE, 9/15, p.126
Magnesium-lithium, ways to cast, ENG, 11/24, p.97
Marking (see)
Metals in jetomic age, 10/13, p.148
Navy magnetic alloy, 7/28, p.76
New alloy tough in the hot spots (heat resistant), 11/17, p.90
Photometric (NBS one-step method) determines copper in alloy steel, 7/14, p.117
Spark machining: Meets superalloy challenge, 7/7, p.92
Tellurium improves copper, 7/28, p.94
Titanium alloys flash welded easily, 7/14, p.84

Aluminum:
Aluminum for trucks, 11/17, p.141
Aluminum brazing sheet for radiator studies, 7/7, p.96
Aluminum bus bars at Reynolds, ENG, 9/22, p.109 and pic., 9/22, p.184
Aluminum future-'60, ENG, 7/21, p.87
Aluminum good yardstick for steel grain size, 11/17, p.96
Automotive to use more, ENG, 10/27, p.71
Gov't encourages use, 9/15, p.56
Supplies ample in '53, 7/21, p.63
See Capacity

American Airlines:
Convair Flagship loading freight, 12/29, p.46

American Gas Assn.:
Expansion plans, 7/21, p.61

American Gear Manufacturers Assn.:
Industry report, 9/8, p.61
Meeting, 11/3, p.68

American Home Laundry Manufacturers' Assn.:
Meeting, Mackinac, 8/4, p.73

American Institute of Chemical Engineers:
Ion exchange, demineralizer reported, 10/13, p.304

American Institute of Electrical Engineers:
Instrument meeting scheduled, 11/3, p.144
Johnson predicts power doubled by '64, ENG, 9/22, p.109

American Institute of Mining & Metallurgical Engineers:
Electric Furnace Steel conference (fume control), 12/29, p.82

American Institute of Steel Construction:
Meeting, Victoria, 10/6, p.49
Officers elected, B, 11/10, p.210

American Institute of Television Manufacturers:
Opens headquarters, B, 7/28, p.144

American Iron & Steel Institute:
Blast furnaces added, 12/8, p.70
Florists wire, 12/15, p.146
Foreign import payments, 12/8, p.67
List of constructural alloys includes 10 borons, 10/13, p.154
Oil country tubular shortage, 12/15, p.76
Pittsburgh meeting, 11/3, p.138
Slag waste uses, 12/15, p.132
TV tube shortage, 12/15, p.132
Wage earners hourly average, 11/10, p.72
West Coast meeting, 12/1, p.59
See Capacity, Distribution, Shipments, Production

American Machine Tool Distributor's Assn.:
Officers elected, B, 10/20, p.171

American Management Assn.:
Conference, office electronics, 9/22, p.190
Executive training program, 12/8, p.138

American Material Handling Society Inc.:
Chicago plant tour, pic., 12/15, p.201

American Mining Congress:
Show at Denver scheduled, 9/8, p.111
Reported: Alloy hollow drill steel, 10/13, p.300

American Rebuilders Assn. Inc.:
Group suspends work, B, 7/28, p.142

American Road Builders' Assn.:
Expenditures needed, 12/22, p.28

American Society for Testing Materials:
Conductor specs, 12/15, p.122
Index published, 11/10, p.142
Meeting: Dr. McMaster reports on testing before fabrication, 7/14, p.91
Standards edition-'52, 7/7, p.125

American Society of Civil Engineers:
Fairless, Fritz Medal, 8/11, p.110

American Society of Mechanical Engineers:
Meeting topics:
  Computers, 12/1, p.98
  Die block capacity, 12/8, p.66
  Fuels-industry tools, 12/15, p.140
  Hazards of new products, 12/22, p.77
  Large forgings, 8/4, p.98
  Power, exhibits, 11/17, p.142

American Society of Tool Engineers:
Charters 101st chapter, B, 10/20, p.172
Research project, B, 11/3, p.196
West Coast chapter, B, 8/4, p.189

American Standards Assn.:
Coal mine code rev., 12/8, p.120
Industry lighting reviewed, 11/10, p.134
Lubricating pump mounts approved, 10/13, p.294
Safety code, forging, 10/13, p.262
Stainless steel pipe dimensions, 7/14, p.124

American Steel Warehouse Assn.:
Publishes roster of members, IE, 9/22, p.239

American Supply & Machinery Manufacturers' Assn. Inc.:
Moves office, B, 7/7, p.179

American Welding Society:
Houston meeting, 11/3, p.56
Metallizing standard published, 9/29, p.102
Welders on tour, 9/15, p.132

American Zinc Institute:
Meeting, continuous galvanizing praised, 12/8, p.134

Amortization:
Amortization rate, Gumbel advises, 12/1, p.54
Connecticut tax expires, 8/18, p.58
Construction, time-limit ruling, 10/6, p.49
DPA approvals: 7/28, p.49; 8/11, p.58; 8/25, p.67; 9/15, p.67; 10/6, p.53; 10/13, p.123; 11/3, p.66
Dispersal approved first, 7/14, p.57
GE certificates, 9/15, p.67
Industrial expansion, June, 7/21, p.71
Iron ore program, 8/4, p.65
Machinery & Allied Products Institute prepare report, 7/21, p.66
SDPA plans, 10/27, p.47
Small firms, goal set, 12/22, p.37
Small plants favored, 8/18, p.68
Yolo Steel applies, 8/25, p.66

Appliances:
Association meeting report, 8/4, p.73
Business—The sell comes back in appliance sales, 12/22, p.38
Combined forming-welding machine for appliances lowers costs, 11/24, p.104
Gas appliance boom, 12/29, p.44
Packard may produce, 7/28, p.62
Westinghouse production at Mansfield up, 9/29, p.51

Armament:
Atomic artillery, 10/13, p.121

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Atomic cannon, two recoil motions, 12/8, p.120
Guided missiles production, 12/15, p.68
Gun barrels, new plating method, 11/17, p.89
Gyroscope missile, 12/1, p.126
Rammed steel cases ... new ramming method, 7/14, p.90
Revolver of aluminum, ENG, 8/4, p.89
Rifles, research aids, ENG, 8/4, p.89
Shells reclaimed, 11/24, p.126
U. S. buys abroad, 7/28, p.57
See Machining

Armed Services:
Fingerprint compound, 10/27, p.80

Armour Research Foundation:
See Illinois Institute of Technology

Army:
Aluminum fixed bridge, T6, new engineer dev., 11/3, p.128
Ammunition needed, 12/29, p.48
Camp Reynolds, industrial area, 7/21, p.70
Jeep rides under water, 11/10, p.83
Mobile petroleum tanks tested, 9/29, p.106
Otter aircraft, pic., 9/8, p.64
Personnel carriers assembled, pic., 9/29, p.52
Rail power plant ordered, 11/10, p.162
Signal Corps capacitors improved, 7/21, p.118
Signal Corps, new cable dev., 7/21, p.64
T-48 medium tank, 7/7, p.66
Tanks for armored troops, pic., 8/4, p.67
Tank, Patton T-48, rubber parts, pic., 8/8, p.65
Tank, rubber tracks, 11/10, p.76
Trucks rebuilt to new standards, 11/3, p.68
See Procurement

Army Ordnance Assn.:
Optical gaging of rotor part, meeting report, 7/28, p.78

Arsenals:
Atomic assembly (see Armament)
Detroit mobile gage lab, 9/22, p.90
Frankford contract, B, 9/1, p.151
Heat treating equipment storage now junk, 12/8, p.72
Picatinny shell gaging co-op with Sheffield, 11/10, p.74
Watervliet casting of weapons, 9/15, p.70

Association of American Railroads:
Freight car deliveries down, 9/29, p.90
Freight car expansion wanted, 12/1, p.59

Association of Casualty & Surety Cos.:
New product hazards, 12/22, p.77

Association of Iron & Steel Engineers:
Alloy paper, 9/15, p.126
Cast refractory trend, 11/10, p.134
Convention exhibitors, 9/22, p.163
Convention highlights, 9/22, p.110
Convention report, 10/6, p.52
Technical papers, 10/6, p.102
Technical sessions, 8/18, p.128

Atomic Energy:
Army cannon, 12/8, p.120
Artillery gun fires atomic missile, 10/13, p.121
Atom smasher, Cosmotron, pic., 10/6, p.48
Atomic power plant, Monsanto report, 7/7, p.63
Electricity cheaper with atom power, 10/27, p.36
Industrial truck propulsion, ENG, 12/1, p.75
Industrial medicine fellowships, 12/1, p.54
Isotopes aid weld inspection, 8/11, p.88
Light source, "Tritium," 10/13, p.147
Metals in the atomic age, 10/13, p.148
Metals, rare earth, new dev., 9/15, p.147
Nuclear reactor cost lessens, 9/29, p.40
Nuclear reactor energy, Army study, 12/1, p.112
Neutron cross sections book, 9/15, p.114
Packaging radioactives, 11/3, p.124
Proton bombardment, new analyzer, 11/17, p.132
Reactor detects flaws, 8/18, p.113
Reactor measured, pic., 8/18, p.71
Reactor for private industry, 10/6, p.48
Research, industrial application, 8/4, p.98
Scrap contaminated with uranium test, 12/15, p.138
Spherical lab to house nuclear reactor for submarine power plant, GE, 10/27, p.48
Sun probed by instrument, 9/15, p.138
Sun, seas for energy, GM McCuen predicts, 12/1, p.112
Temperature standardization: Big gains in research, 8/11, p.80

Atomic Energy Commission:
Breeder reactor, ENG, 9/15, p.91
Civilian aid sought, 10/27, p.44
Contracts, B, 8/4, p.187
Contracts, Kaiser Engineers, B, 8/11, p.157
Contracts, Maxon-McGraw, 7/28, p.40
Patents, 11/17, p.64
Plutonium for sale, 9/8, p.184
Uranium plant Ohio, 8/18, p.71
Uranium plant Goodyear operates, 10/6, p.163.

Australia:
International Bank loan, 8/4, p.68

Automation:
Auto industry mechanization, 11/10, p.83
Chevrolet casting, 12/15, p.110
Continental Gin, 10/13, p.252
Dodge V-8 engines, 12/15, p.122
Ford foundry Cleveland, 12/1, p.51
Ford stamping, Buffalo, 12/15, p.90
Westinghouse conference, 11/10, p.102

Automotive:
Accessories selection, 11/3, p.77
Air conditioning seen, 11/10, p.84
Air conditioning, DeSoto, 12/29, p.55
Allotments, 1st quarter, 9/29, p.61
Aluminum brazing sheet for radiator studies, 7/7, p.96
Aluminum demand to grow, ENG, 10/27, p.71
Auto Facts & Figures '52, 10/13, p.306
Auto output for '53 1st quarter undecided, 8/11, p.48
Auto trim, Alcoa, ENG, 9/15, p.91
Automatic devices, 11/10, p.84
Automatic transmission, Ford trucks, tests, 11/17, p.71
Auto prospects '53, 12/29, p.57, p.73
Bearing rods examined, pic., 7/21
Bench tests solve field problems (GM), 11/24, p.102
Big Three production-wise chart, 8/11, p.69
Bonded brake linings pay off, 8/18, p.80
Brake drum for trucks of welded copper and steel, ENG, 7/28, p.73
Brake lining process, 7/7, p.135
Brake motor collector rings molded from rubber-phenolic compounds, 9/8, p.128
CMP steel problem, 10/20, p.75
Centennial of Engineering, "freedom" is progress, 9/15, p.77
Colbert views competitive market, 11/3, p.77
Competitive selling in '53, 9/29, p.81
Conversion steel problem, 8/11, p.69
Conversion steel decontrol, 8/25, p.77
Corrosion resistance studied, 7/7, p.75
Cost production problems, 9/1, p.67
Cost cutting mechanization answer, 11/10, p.83
Crankshaft forging, 9/29, p.78
Crankshaft output tripled, H. C. Tuttle, 9/29, p.78
Detroit engineer, "Seven Questions," 12/22, p.49
Dodge story, car is born, 11/24, p.83
DeSoto '53 models, 9/22, p.96
Dual purpose plant, B-O-P, Texas, 10/13, p.134
Electrical system, 12-volt, 12/15, p.89
Engineers addressed by Maurice Olley, 10/13, p.134
Ford denies sales-profits story, 12/22, p.50
Horsepower, engineers misgivings, 10/27, p.58
Horsepower race, 11/17, p.72
Horsepower surprises, 10/20, p.76
Ignition distributor points improved with ventilated contact, 9/8, p.111
Jeep-railroad cars, Willys, 10/6, p.61
Labors gains, 9/1, p.67
Labor outlook, 12/29, p.57
Magnesium, future use, 11/17, p.49
Manpower shortage, 10/13, p.133
Military vehicle production nears goal, 10/27, p.57
Motor vehicles registered by end of '52, 9/1, p.46
New models, 12/1, p.61
New models, advance indications, 8/18, p.78
Olds camera-wire recorder plots valve performance, 9/8, p.72
Packard, changes under J. J. Nance, 8/4, p.75
Personnel shifts, 8/11, p.70
Plastic dies draw truck panels, 9/15, p.92
Plastic dies, Ford, GM, 10/13, p.111
Plastic dies, Mercury, ENG, 12/22, p.63
Plastic uses, 10/6, p.61
Plating finishes (list), 11/24, p.71
Plating progress, ENG, 11/10, p.97
Power steering, Packard, 12/1, p.61
Power steering, Pontiac, 12/8, p.79
Replacement parts, business, 12/15, p.85
Research: "Trailblazer for metalworking," 10/13, p.166
Shell molding, Chevrolet, 12/29, p.58
Sports-car market seen, 7/14, p.69
Sports car plans, 9/8, p.71
Steel strike effects on production, 7/28, p.61
Supplier strikes, 9/22, p.95
Suppliers, production overtime, 8/25, p.78
Supply shortage, 10/13, p.134
Technical advances, 7/7, p.75
Tool-up stage passed for defense contracts, 8/4, p.76; nears end, 9/29, p.62

B

Bars:
Bars to flats, Scovill process, ENG, 8/4, p.89
Bigger tool steel bars ... the inside story, 11/3, p.96
Rolled steel bars: "Capacity needed," 9/29, p.50
Rolled steel bars to castings, shift in ammunition", 11/10, p.76
Stretcher improves stainless bars, 7/28, p.79
See Marking

Battelle Memorial Institute:
Building lab, B, 8/18, p.175
Causes for molybdenum weld brittleness, 7/28, p.98
Dr. McMaster addresses ASTM, 7/14, p.91
Extensometer dev., ENG, 8/18, p.93 and 12/29, p.71
German center, 12/15, p.122
Heat-resistant alloy research, ENG, 8/11, p.83
Packaging systems, changes would cut costs, ENG, 8/25, p.91
Rare earths, new metals, 9/15, p.144

Batteries:
Arc welder-battery charger, IE, 10/6, p.134
Batteries for power blasting, pic., 12/1, p.177
Battery capacity curve selection, 7/28, p.87
Battery charge indicator, IE, 8/18, p.148
Instruction sheet, Gould, 9/15, p.138
Mercury reclaimed, B, 12/15, p.204
Plastic containers, IE, 12/8, p.156
Storage battery has plated aluminum grids, ENG, 12/29, p.71
Water activated battery for life buoy lights, ENG, 12/8, p.93

Bearings, Bushings:
Antifriction bearings: Sales, 11/3, p.67
Ball bearing bushing has split outer race, IE, 10/27, p.104
Ball bearing idler rollers, IE, 9/8, p.150
Bearing has tapered bore, 10/13, p.282
Comparator detects metal hardness, 7/21, p.104
Flange sleeve bearing unit, IE, 7/28, p.115
Furnace tilting, ball bearing assembly, 9/15, p.100
Giant bearings on gun mounts of Patton tank, 10/13, p.297
Linear ball bearing, IE 9/8, p.155
Navy studies corrosion, 7/28, p.84
Pillow blocks, IE, 9/8, p.152
Pillow blocks, IE, 10/6, p.121
Pilot bearing bushing, IE, 8/11, p.133

Belgium:
Shuman Plan solves price problem, 12/1, p.57
Steel high prices end; output '51, wage index 1946-'51, 8/11, p.65
Wage demands, 9/1, p.63

Bells:
Bell making, (pics.), 8/25, p.168

Belt Conveyors:
Collector system ups mill scale recovery, 10/20, p.102
See Materials Handling Equipment

Bituminous Coal Operators Assn.:
Soft coal producers drop out, 12/22, p.28

Bituminous Coal Research Inc.:
Rights sold to Le Roi, B, 8/11, p.162

Blast Furnaces:
Added furnaces, 12/8, p.70
Armco operation by Mar., 11/10, p.62
AS&W furnace, 12/1, p.51
Bell, pic., B, 12/29, p.132
Bethlehem completion soon, 10/27, p.45
Crucible Steel, pic., 12/22, p.126
Crucible Steel, plans, 11/24, p.73
Delaware River Steel plans, 8/11, p.58
Design (American furnace) no drastic change seen, 10/20, p.104
Design, changes needed, Swiss expert reports, 9/22, p.172
German process, "low blast" (pig iron without coke), 8/4, p.71
German "low blast", Mexicans study, 9/15, p.73
Michigan Iron & Coke, new plant, 8/11, p.58
Republic Steel, 11/3, p.65
Wet dust recovery, 8/11, p.98
Yolo Steel & Metal, certificate, 8/25, p.66
Youngstown Sheet, Indiana Harbor, 11/3, p.64
See Capacity
See Production

Blasting (see Cleaning)

Blueprints (See Drafting)

Bolivia:
Seeks RFC tin contract, 8/4, p.54

Bond Issues (see Construction)

Bonding:
Al-Fin, companies licensed, 11/17, p.141 and 195
Bonding agent, 12/8, p.131
Bonding line, 10/13, p.264
Cold-joining agent, ENG, 12/15, p.103
Paper bond ups hammer work, 11/24, p.106

Books, Booklets:
Air-stream purifiers, 12/15, p.143
Aircraft motor parts, 11/24, p.112
Aluminum forming, Reynolds, 9/15, p.117
An Outline of Metallurgical Practice; Carle R. Hayward, 8/4, p.132
ASTM index, 11/10, p.142
Battery application, 12/8, p.117
Boiler waters, tech. pub., 11/3, p.128

Code: B *Briefs*, ENG *Engineering and Production News*; IE *Industrial Equipment*

Broadening skills of nation's work force, 10/20, p.121
Canadian Trade Index '52, 8/4, p.134
Carbide alloys, 12/15, p.116
Caster's booklet, 11/17, p.101
Chemical handling, 7/7, p.132
Circuit breaker designs, 11/24, p.112
Compressor facts, 12/1, p.101
Conveyor parts, 12/1, p.113
Corrosion test, 11/10, p.1[illegible]8
Coupling line, 8/25, p.97
Crerar Metals Abstract, 11/10, p.129
Design and use of cutting tools: Leo J. St. Clair, 11/10, p.158
Drilling handbook, 8/11, p.97
Dust filters, 10/20, p.102
Engine indicator, 11/17, p.117
Engineer recruiting, 8/18, p.125
Grinding report, SDPA, 9/8, p.104
Hand pumps, 12/8, p.140
Induction heating, 10/13, p.322
Industrial tolerance tables, 10/13, p.310
Investment castings, 8/4, p.120
Lead in modern industry: Lead Industries Assn., 11/10, p.160
Magnet service, 12/15, p.152
Management folder, 11/17, p.118
Materials handling survey, 11/10, p.139
Metallizing standard, 9/29, p.102
Metallurgy for engineer: John Wulff, 11/10, p.158
Mill regulators, 11/17, p.136
Nuclear cross sections, 9/15, p.114
Optical instruments explained, 11/17, p.123
Plant protection, 7/28, p.54
Plastics cyclopedia, 9/22, p.186
Powder brass manual, 10/13, p.275
Press data, 12/15, p.112
Renegotiation Bd. explains, 8/18, p.70
Respiratory protective devices listed, 7/28, p.98
SDPA data for small plants, 11/3, p.130
SDPA leaflets, 9/15, p.105 and 120
Science of Flames and Furnaces: M. W. Thring, 8/4, p.138
Scientific dictionary—Russian-English, goal, 7/21, p.52
Shaper data, 12/8, p.132
Sheet metal facilities, 7/14, p.104
Side-positioners, 11/24, p.122
Simplimatic lathe, 12/1, p.122
Socket screws, 12/22, p.82
Solenoid valve applications, 12/29, p.85
Spectrographic analysis of diesel fuel, 11/24, p.126
Steel fence posts spec., 8/25, p.70
Steel Wire in America: Kenneth B. Lewis, 8/4, p.132
Tap and die sizes, 10/13, p.282
Tariff rate changes, 11/17, p.64
Thread gage prices, 8/4, p.128
Tinplate operations, 9/15, p.141
Titanium: Gmelin Institute, 11/10, p.160
Titanium review, Rem-Cru, 9/8, p.119
Tool salvage welding, 7/28, p.92
Tool steels, 12/15, p.112
Turret trucks, 12/8, p.112
Twist drills, 12/8, p.131
Welding school catalog, 11/17, p.132
Welding with stainless electrodes, 10/13, p.304
Western Resources compiled, 8/18, p.128
Wrench care, 12/1, p.122
X-ray catalog, 11/17, p.118

Boron:
Boron saves alloys, ENG, 7/14, p.83
Carbon content determines boron steel behavior, 10/13, p.154
New spectrochemical excitation unit: A key to essential control in boron steels, 10/6, p.92

Brakes:
See Automotive
See Power Transmission (Mechanical)

Brazil:
Construction equipment, U. S., 7/28, p.57

Brazing:
Aluminum brazing sheet used in radiator studies, 7/7, p.96
"Braze-Clad" for silver brazing, 9/15, p.102
Engine blocks: Sandwiched from simple castings and furnace brazed, 9/1, p.88
"Mo-braze" for moly brazing, 7/14, p.85
Plymetal shims for carbide tool tips, 11/17, p.135

Bridges (See Construction)

British Iron & Steel Research Assn.:
Corrosion test, ENG, 12/1, p.75

Broaching:
Crush grinding produces intricate surface broaches, 9/1, p.103
Contractors sought, 9/22, p.73

Brookhaven National Laboratories:
Packaging radioactives studied, 11/3, p.124

Brushes, Brushing:
Automatic brushing speeds gear cleaning, 8/4, p.94
Centerless brushing (one machine), 7/7, p.94
Power brushing versatility expands, 11/24, p.122
Locomotive brushes, 11/10, p.152
Wire cup brush removes rust scale, IE, 11/3, p.151

Business:
America's economy for 1960, National Planning Assn., 12/29, p.45
Antifriction bearings, 11/3, p.67
Appliances, 12/22, p.38
Auto replacement parts, 7/7, p.76
Automotive, competitive selling in '53, 9/29, p.61
Building boom, 12/29, p.48
Capital Expenditures (see)
Carbide tools, 8/25, p.67
Champion Rivet, 8/18, p.75
Company earnings (see Financial)
Construction, builders encouraged, 9/22, p.86
Delivery dates, 9/22, p.83
Die casting, 11/24, p.81
Election issue, management should act, 8/4, p.68
Electronic recession fear, 12/15, p.77
Electronic sales, 12/29, p.35
Electroplaters, 11/24, p.71
Eisenhower, what industry can expect, 11/10, p.69; 9/15, p.74
Employee stockholding plans, 7/21, p.62
European competition: U. S. businessmen report, 11/10, p.81
Farm machinery, 7/21, p.63 and 12/8, p.68
Fasteners outlook, 7/7, p.63
Gas appliance boom, 12/29, p.44
Gas, boon to metalworking, 11/3, p.74
Gear makers, 9/8, p.61
Gray iron, industry's workhorse, 9/22, p.85
Grinding and cutting wheels, 12/1, p.50
Helicopters, 7/14, p.60
Hidden payroll costs, 9/22, p.84
House trailers, 12/29, p.53
Housing boom, 9/8, p.60
Industrial controls, 9/15, p.67
Industrial motor controls, 9/29, p.51
Industrial real estate, 9/29, p.59
LP-gas sales down, 12/29, p.35
Machine tool builders, 9/22, p.92
Manufacturing corporations (total assets) table, 7/7, p.64
Materials handling equipment sales, 12/29, p.53
Materials handling, meeting report, 7/7, p.65
Metalworking sales-profits (chart), 10/13, p.119 and 11/24, p.72
Money tightens, 10/13, p.111
New England, metalworking slated for growth, 9/29, p.49
Oil country goods, need, 12/15, p.76
Parking meters, 10/13, p.130
Plastics machinery, 9/8, p.59
Plumbing and heating, 12/29, p.45
Replacement costs (depreciation), 12/8, p.67
Replacement parts, autos, 12/15, p.85
Scientific apparatus, 7/14, p.65
Small business (see)
Spraying, 8/18, p.69
Stampers urge production, 11/10, p.71
Steel men concerned at capacity increase, 9/22, p.114
Tool and die shops, 8/18, p.67
Toys, 12/22, p.45
Trackless-trolley, 9/29, p.51
Truck-trailers, 12/22, p.45
Transmission chain, 10/6, p.51
Used machinery, 10/13, p.123
Warehousemen prepare for buyers' market, 12/29, p.43
Weldments, 10/27, p.46
Westinghouse, 8/4, p.54 and 12/29, p.49
See Capital Expenditures
See Financial

Business Records:
Business records microfilmed, ENG, 7/28, p.75 and IE, 9/29, p.115
Card-recording system, 12/1, p.119
Colored tags for control board, B, 11/3, p.194

C

Cameras: See Photography

Camp Reynolds:
Replacement depot now production plant, 7/21, p.70

Canada:
See Iron Ore

Capacity:
Aluminum goal, 9/1, p.45
Artificial graphite, 7/21, p.61
Artificial graphite, '53 estimate, 12/1, p.50
Blast furnace, 9/22, p.82
Blast furnace (companies), 9/22, p.152
Blast furnaces added, 12/8, p.70
Carbon electrodes, '53 estimate, 12/1, p.50
Coke (company list) 9/22, p.150
Electric power doubled by '64, ENG, 9/22, p.109
Electric power, '55 goal, 9/1, p.45
Electric power lost due to steel strike, 8/11, p.57
Hot-rolled steel bars, needed?, 9/29, p.50
Iron ore goals set, 7/28, p.52
Iron ore: Present and projected, 8/4, p.65
Openhearth annually (company list), 9/22, p.146
Pig iron, Bethlehem, 10/27, p.45
Steel expansion, 9/1, p.45
Steel expansions (companies), 9/22, p.155
Steel, 9/15, p.69
Steel: 7-million-ton gain in '52, 9/22, p.82
Steelmaking: 120 million tons of steel—how does it match our economy?, 9/22, p.114
Steelmaking capacity (company listing) 9/22, p.146
Steelmaking, small plants survey, 10/13, p.130

Capital Expenditures:
Defense expenditures pass midway point (chart), 10/20, p.64
Gas-pipeline industry, 7/21, p.61
Manufacturing—non manufacturing comparisons, 8/25, p.73
New plant and equipment by U. S. Business (chart), 10/6, p.50 and 12/22, p.35
Oil industry—'52, 7/7, p.54

Carbide Tools:
Industry reported, 8/25, p.67

Case Institute of Technology:
College professors study business, 7/28, p.58
Motor design course, 12/15, p.138

Cast Iron Soil Pipe Institute:
Meeting scheduled, 10/13, p.309

Caster & Floor Truck Mfg. Assn.:
Handbook published, 11/17, p.101

Casting:
Aircraft precision investment-lost wax tech. expands, 11/17, p.120
Aircraft radial engines — Kaiser-Frazer, 9/15, p.97
Blast furnace bell, pic., casting experiment, 8/18, p.177
Buick castings cleaning dept., 9/1, p.68
Casting process, Powdered Metal Products, 7/28, p.90
Casting refractory, soaking pit covers, 7/21, p.100
Castings salvaged on production basis (sealing, impregnation methods), 11/10, p.166
Centrifugally cast jet engine ring: How to rough machine them, 10/6, p.78
Chevrolet automatic machines (Mass Production: But with an eye on versatility), 12/15, p.110
Continuous casting, Atlas Steels, 11/10, p.156
Continuous casting, Republic and Babcock, 12/22, p.79
Engine blocks: Sandwiched from simple castings, Alcoa, 9/1, p.89
Guns from cast steel, 11/10, p.76
Heat-resistant alloys for castings research, ENG, 8/11, p.83
High-duty irons (Meehanite) reduce costs, 9/15, p.94
Hitchiner Products process, B, 7/28, p.139
Kaiser giant aluminum ingot for heavy press forgings, 7/7, p.65
Lost wax study, 7/7, p.135
Magnesium-lithium alloys, ways to cast, ENG, 11/24, p.97
Nash flexibility, ENG, 9/15, p.91
Ore carrier support, pic., 12/1, p.104
Plaster molds for aluminum casting dry evenly with far-infrared electric heat, 8/11, p.112
Porosity measured, 11/10, p.111
Repair kit, IE, 9/1, p.127
Shell molding data grows, 12/22, p.68
Shell molding: New machine makes it automatic, 10/6, p.83
Shell molding machine, pic, 12/22, p.77
Shell molding machine, Stanford Univ., 10/20, p.100
Shell molding stainless, pic., 12/1, p.122
Vacuum impregnates metal castings at Northrop, 7/14, p.88
Visual aid dramatizes castings story to engineers, 9/15, p.112

Cements:
Bonding agent retains drill jig bushings, IE, 11/17, p.162

Charts, Tables:
Allotments:
  3rd and 4th quarter, 7/14, p.56
  Set-asides, 4th quarter, 8/11, p.61
America's economic future, blueprint, 12/29, p.45
Appliance makers, 12/22, p.39
Automotive "Big Three" production, 8/11, p.69
Average wage rate, countries listed, 9/1, p.63
Band saw operating factors, 10/20, p.93
Base metals handling, do's and don'ts, 11/10, p.104
Blast furnace design, 10/20, p.104
CMP symbols, 8/4, p.72
Capital expansion (1950-'53), 12/22, p.35
Capital expenditures, new plant and equip., 10/6, p.50
Cemented chrome carbide, physical properties, 8/4, p.93
Coal supply, 85-day strike insurance, 9/15, p.66
Coated abrasive methods, 8/25, p.96
Comparison between centrifugal cast engine ring and same type after rough machining, 10/6, p.79
Construction ('51, '52, '53), 11/3, p.66
Construction '53, 12/15, p.78
Decontrol distribution, 9/29, p.58
Decontrol timetable, 11/24, p.69
Defense spending, 9/8, p.57
Defense timetable, plant and equipment expansions, 10/20, p.64
Employee stockholding, 7/21, p.62
Farm labor vs machinery, 7/21, p.63
Farm machinery sales, 7/21, p.63; 12/8, p.68
Fuel production increases, coal, oil, gas, 9/29, p.47
Gas industry, construction expenditures, 11/3, p.75
Grinding-cutting wheel output, 12/1, p.50
Heavy press program reviewed, 12/1, p.78
Hot-rolled steel bars, 9/29, p.50
House committee chairmen, 12/8, p.72
Housing starts, 9/8, p.60
Induction heating operating data, 9/8, p.90
Industrial motor controls, shipments, 9/29, p.51
Ingot iron, stress-strain values, 9/1, p.86
Iron ore: Present and projected productive capacity, 8/4, p.65
Iron ore supply, 10/13, p.122

Code: B—*Briefs;* ENG—*Engineering and Production News;* IE—*Industrial Equipment*

Jigs for drill bushings, 12/29, p.75
Latin America steelmaking, 11/24, p.80
Machine tools problems ahead, 9/22, p.93
Manufacturing cost control, 10/27, p.53
Manufacturing firms with 50,000-shareholders, 7/7, p.64
Merchandise exports-imports, 9/8, p.69
Metals machinability, 8/18, p.98
Metalworking expansion, '53, 12/22, p.35
Metalworking sales profits, 10/13, p.119 and 11/24, p.72
Military aircraft unit output, 12/29, p.47
Military spending, 12/15, p.75
Mold coatings, 12/8, p.106
Packaging check list, 10/6, p.59
Plant power system, 12/29, p.72
Plating bath, tin scrap, 12/1, p.84
Presidential office reorganizing, 12/15, p.82
Railroad expansion timetable, 8/18, p.68
Scientific apparatus sales ('50-'52), 7/14, p.65
Shipbuilding statistics, 8/25, p.70
Small plants per cent organized, 9/1, p.57
Spectrochemical method traces boron steels, 10/6, p.62
Springback indexes for metals, 8/4, p.91
Steel earnings, 3rd quarter, 11/3, p.64
Steel price increases recommended by GSP, 8/11, p.56
Steel strike recovery timetable, 7/7, p.61
Steelmaking capacities, 9/22, p.111 et.
Union Security Survey, 7/14, p.58
Welding rod shipments, 10/27, p.16
What can industry expect (Eisenhower-Stevenson), 9/15, p.71

Chemicals:
Acid handling manual, 11/10, p.139
Acid test on rust, 9/8, p.122
Additive controls fuel oil residue, 7/21, p.126
Additive prevents boiler scale, ENG, 9/8, p.85
Additives to gray iron add strength, ENG, 11/17, p.85
Alkaline descaler, electrolytic, 11/17, p.148
Anarust, liquid rust inhibitor, IE, 12/15, p.167
Buffing, polishing compound (Navy), 7/28, p.100
Cement for lining tanks, Fura-Tone, IE, 10/6, p.133
Cryolite output subsidized, 7/7, p.65
Descaling shell rings, 7/14, p.130
Degreaser, IE, 11/17, p.154
Detergent cleans alum., magnesium, IE, 8/25, p.119
Diamond lapping compound, IE, 7/21, p.148
Digit-print remover halts corrosion, 7/14, p.124
Drawing compound, ENG, 10/20, p.89
Etching-type cleaner, IE, 8/11, p.128
Expansion: $5 billion boom, 10/20, p.95
Fingerprint compound, 10/27, p.50
Floor refinishers (see Floors)
Fuel tanks zinc chromate coating, 9/1, p.87
Galvanite protects metals, IE, 7/21, p.128
Gasket compound squirted, ENG, 10/20, p.89
Ion exchange: New hope for waste recovery, 10/20, p.97
Liquid fixer, stainless, IE, 9/22, p.208
Metal cleaner compound 31, IE, 7/21, p.148
Metal cleaner Kemisol A, IE, 7/21, p.151
Oxides removed without acid, 12/1, p.116
Phenolic core bonding resin, IE, 9/22, p.213
Phenolic resin coatings, IE, 8/18, p.148
Resins soften water, 7/7, p.120
Rubber-phenolic compounds makes better brake, 9/8, p.128
Safe handling book, 7/7, p.132
Silicone resin, IE, 10/6, p.132
Sodium properties, safe handling, 7/14, p.125
Steam cleaning compound, IE, 9/29, p.137
Steel precleaner, IE, 7/14, p.151
Tin-lead stripper, IE, 8/4, p.158
Waterproofing compound, IE, 9/1, p.127

Chrome:
Chrome carbide for high corrosion resistance, 8/4, p.93
Chrome plating aircraft tools, ENG, 8/11, p.83

Cinder Pots:
Creating a "thimble" cinder pot manufacturing, 10/20, p.96

Clad Metals:
Clad metal for soda fountains, 7/7, p.93
Clad metal patents pooled, 11/10, p.72
Copper-clad steel plate, 10/13, p.272

Cleaning, Blasting:
Air blaster both cleans and peens in gearmaking, 7/21, p.115
Automatic brushing speeds gear cleaning, 8/4, p.94
Blast cleaner speeds casting flow, 7/7, p.95
Heat treater adds commercial cleaning, 9/15, p.142
Multiple coal blasting, 8/18, p.120
Porcelain enamel refinished without sandblasting, pic, 12/1, p.86
See Chemicals
See Machines
See Ultrasonics

Coal:
Coal stocks: Strike insurance to burn, 9/15, p.66
Multiple blasting, B of M report, 8/18, p.120
OPS ceiling boost, 8/18, p.58
Prices up ... production increases since 1939, 9/29, p.47
Supply against strike, 9/15, p.68
Soft coal strike (see Wages)

Coatings: See Finishes

Cobalt:
Shortage ends, production, new plants, 12/15, p.143
U. S. agreement Silver Miller Mines, 8/18, p.70

Coke:
Capacity—company list, 9/22, p.150
Coke expansion (chart), defense report, 8/18, p.72
Coke plants explosion-proofed, 7/7, p.103

Coke Ovens:
Algoma order, B, 9/29, p.161
Beehive oven loan, GSA to Lucerne Coke, 10/6, p.54
Crucible adds, 11/24, p.72
Delaware River Steel, 8/11, p.58
U. S. Steel order, B, 11/17, p.195
Weirton project, 11/24, p.72
Youngstown Sheet & Campbell Wks., 11/3, p.56

Columbia University:
ISO meeting, steel tests, 7/7, p.122
Russian-English scientific dictionary is goal, 7/21, p.52

Communications:
Army Signal Corps cable, 7/21, p.64, ENG, 8/25, p.91
Audiophone, IE, 11/10, p.175
Microwave, 12/29, p.35
Trolleyphone, IE, 8/4, p.160

Compressed Air & Gas Institute:
Air system leaks checked, 9/15, p.117

Compressors:
Frontier Oil Refining, 600-hp compressors installed, 9/15, p.131
See Air

Computers: See Counters

Conservation:
Navy metal conservation, recovery in pounds-dollars, 9/8, p.85
Navy seeks methods, 9/15, p.68
Strategic elements emphasis is on conservation, 9/1, p.82

Construction:
Air Force engineers build warehouse steel structure, pic, 11/3, p.141
Aluminum fixed bridge (T6) gets Army ok, 11/3, p.128
Angles for gate frame at Canyon Ferry Dam gets welding, 11/3, p.102
Bond issues, new record, 11/10, p.62
Canes of steel for garage, pic, 9/1, p.154
Chart 1951, 52, 53, 11/3, p.66
Chemical plant, pic, 9/8, p.184
Controls may relax, 9/22, p.86
DPA stretchout effect, 9/15, p.55
DPA time-limit rule, 10/6, p.49
Delaware Memorial bridge, pic, 10/27, p.144
Housing (see)
"Low bridge" overpass, pic, 12/8, p.188
Prestressed beams shore up Pier 57 (Hudson river), 8/25, p.112
Scaffold stresses safety, pic, 10/27, p.145
Standardized building booms, 12/29, p.48
Steel bridging for warehouse floors, 11/10, p.111
Tokyo boom, 10/13, p.129
Outlook for 1953 ... $33 billion, 12/15, p.78
Welded boom structure for dredge hidden arc cuts cost of stress relieving, 10/27, p.92
Welded girders part of McNary dam bridge cranes, 9/29, p.86

Containers: See Packaging

Controlled Materials Plan:
Allotments:
4th quarter '52
  Defense projects, 8/11, p.58
  Distribution 3rd-4th quarter, 7/14, p.56
  Set-asides, iron-steel products, 8/11, p.61; 8/4, p.63
  Steel postponed, other metals up, 7/14, p.57
1st quarter '53
  Auto rationing, 9/29, p.61
  Class B relaxed, 8/11, p.57
  Distribution 1st-2nd quarter, 12/22, p.37
  Open-end may be tried, 8/25, p.63
Automakers low on tickets, 10/20, p.61 and 75
CMP retained as reporting device after controls end?, 10/27, p.50
CMP symbols, 8/4, p.72
CMP tickets ... Do they match supply?, 10/20, p.61
Carbon steel, why decontrol?, 11/24, p.70
Civil projects approved, 8/18, p.69
Congressional committee favors CMP into '53, 12/1, p.39
Construction allotments, 10/27, p.44
Conversion steel, new producers, 8/25, p.55
Conversion steel decontrol, 8/25, p.64; automakers view, 8/25, p.77
Brass, copper mills allocated, 9/29, p.40
Decontrol, how soon, to what extent?, 8/25, p.63; By spring?, 9/1, p.45; Oct.?, 9/29, p.54; July?, 10/6, p.48
Decontrol plans, 11/24, p.69
Decontrol timing: time for decision (chart—where materials will go), 9/29, p.58
Decontrol timetable, carbon steel, 11/24, p.69
Filing 4B deadline, 8/25, p.56
Form 4b, Dec. deadline, 11/3, p.55
Ford's appeal refused, 7/28, p.61
Fowler halts decontrol, 12/8, p.66
Limited priority to succeed CMP, 9/8, p.66
Oil burners, steel delivery slow, 9/8, p.60
Oil country goods tabs extended, 9/8, p.62
Post-strike allocations, task group maps program, 7/21, p.60
Self-certification in ... B-products hiked for small users, 10/27, p.50
Steel decontrol urged, 12/1, p.48
Steel supply-demand balance nearer, 9/22, p.81
Steel distribution, 8/4, p.63 and 8/11, p.55
Stretchout?, 9/15, p.65
Structural allotments, 10/6, p.49
Transport Adm. needs 2nd quarter, 11/17, p.50

Controls:
Gates Rubber ... Control system eliminates human error, 8/11, p.87
Humidity, temperature control, IE, 12/8, p.149
Pushbutton control is oil tight, 7/28, p.82
Temperature controller, storage condensation stopped, 11/17, p.126
Thermostats spot tank level, 12/8, p.128
See Electronics
See Instruments
See Valves

Conveyor Equipment Manufacturers Assn.:
Conveyor manual lists parts, 12/1, p.113
Elects officers, B, 12/29, p.129

Conveyors:
Personnel conveyors: A look into the future, 12/1, p.58
See Materials Handling

Coolants: See Lubricants

Copper:
Tellurium copper for electrical connectors, 7/28, p.94
Strike possible, 7/7, p.62

Corrosion:
Automotive studies corrosion resistance, 7/7, p.75
Bearing corrosion study, Navy, 7/28, p.84
Carbide kit for testing, 7/14, p.124
Chrome carbide provides high corrosion resistance, 8/4, p.92
Digit-print remover halts corrosion, 7/14, p.124
Forum outlines corrosion engineer's orbit, 10/6, p.100
Fretting stopped, NACA tests, ENG, 12/22, p.63
GM Aldip process, 7/7, p.75
Permyron process, high resistance to mild steel, 7/28, p.99
Solder is noncorrosive, 7/28, p.75
Sulphur dioxide test, British, ENG, 12/1, p.75
Thermo-chemical process, corrosion resistant treatment for mild steels, 7/28, p.99
See Finishes, Coatings

Cost Control:
Manufacturing cost control, 10/27, p.53

Council for Technological Advancement:
Formed, B, 8/18, p.177

Counters, Computers:
Calculator coil insert for side cover, 10/13, p.274
Calculator thread inserts, 12/8, p.112
Computers engineering tools to shape new plants, convert old ones (ASME report), 12/1, p.86
Electronic "brain" unveiled, ENG, 8/18, p.93
Electric brains expand steel's muscles, 11/3, p.106
Electric counters with built-in rectification, IE, 11/10, p.178
Geiger counter (see Instruments)
GM-Roach speaks on uses, 11/24, p.129
Predetermined counters, IE, 11/24, p.136
Productimeters, IE, 11/24, p.136
Sheet slide rule, 11/3, p.128

Crerar Library, John:
Publishes "Crerar Metals Abstract", 11/10, p.129

Cryolite:
Pennsylvania Salt DMPA contract, 7/7, p.65

Cuba:
Nicaro nickel plant, 9/22, p.85

Cutting, Shearing:
Band saw walks through metal (friction sawing), 10/20, p.92

Code: B—Books, ENG—*Engineering and Production News*, IE—*Industrial Equipment*

Metals machinability theory pays off, 8/18, p.98
See Abrasives
See Machine Tools
See Tools (Cutting)

D

Defense:
Aircraft appropriations through '55, 12/1, p.39
Aircraft production, quality vs quantity (Campbell report) 10/6, p.47
Aircraft schedules pushed, 7/28, p.50
Amendments" (DPA), 7/7, p.62
Charts materials supplies, 9/8, p.58
DTA recommend railroads increase locomotives, 7/14, p.47
Dean to succeed Clay Bedford, 9/8, p.50
Dean, asst. to Lovett, 10/13, p.124
Defense spending, '51-'52-estimated '53, 9/8, p.57
Defense spending, '53, 9/29, p.39
Defense timetable (see Expansion)
Distressed areas, program halts, 8/18, p.58
Federal factory proposal, 8/25, p.56
Fowler to succeed Steelman, 9/8, p.50
Fowler requested to explain price-wage increase by House Small Bus. Com., 11/17, p.64
Gas pipeline goals set, 9/29, p.59
Horne succeeds Telford Taylor, 9/8, p.50
Howe appointed, 10/20, p.67
Industrial research data survey, ENG, 7/28, p.75
Industry men ready to serve, 11/10, p.70
Industrialists not under staff reductions, 8/11, p.62
Kyes, deputy sec'y-procurement, 12/29, p.49
Loan Review Committee, 10/6, p.49
Military spending (Charts), 12/15, p.75
Military stretchout, officials differ, 9/15, p.65
Mobilization, machine tool needs, 9/22, p.92
Mobilization, Canada-U. S., 9/15, p.64
Mobilization, filling in the gaps, 10/20, p.67
PAD (see)
Post-defense possibilities, 11/24, p.61
Production policy committee, 11/24, p.69
Refractories goals, 11/24 p.75
Review Bd. cases handled, 7/21, p.52
Scientific research funds, 11/24, p.61
Small advisor to sec'y, 8/11, p.48
Sylvester, director of BRAB, 9/8, p.66
Trigg, deputy adm., 10/6, p.40
Vance committee (PPAC) reports shadow plants, 12/1, p.49
See Amortization
See Expansions
See SDPA

Defense Contracts:
Aircraft subcontracting, 8/25, p.68
American Car & Foundry, bomb, 9/8, p.63
Contractors win court appeal, 7/21, p.64
Contracts (selected) in excess of $250,000, 7/7, p.66
Contracts out, $50 billion, 7/14, p.57
Cost computation ruling on depreciation, 7/28, p.54
Dravo, 10/13, p.121
Ecko Products, 9/8, p.63
Excess inventory change, 11/24, p.76
Ford J-57 order, 12/29, p.58
Machine tool cancellations, Form NPAF-227 required, 9/15, p.55
Machine tool unrated orders for emergency, 7/28, p.50
MRO sales: Renegotiable?, 7/28, p.54
Production pools (see SDPA)
Renegotiation:
  Amendments, 12/29, p.50
  Booklets, 8/18, p.70; 12/8, p.66; (staff) 11/17, p.64
  Renegotiation, you can help yourself, 7/7, p.72
  Renegotiation progress, 11/10, p.61
  Rules change, 9/22, p.87
Steel strike effects, 7/28, p.48
Willys jeeps shipped, 8/4, p.76
See Procurement

Deliveries:
Delivery dates, 9/22, p.83
Freight cars 9/29, p.50

Denmark:
Ship tanker to Russia, 8/4, p.68

Depreciation:
Industry's profits overstated replacement costs rise, 12/8, p.67
Replacement (see Business)

Descaling:
Automatic billet descaler, IE, 10/13, p.328
Descaling shell rings without abrasives, 7/14, p.130
Ultrasonic descaling, 12/22, p.63

Die Casting:
Aluminum die casters' sales, 11/24, p.81

Dies:
Blocker design stressed, ENG., 7/21, p.87
Die adaptor, IE, 11/17, p.154
Die stock hardens in air, 9/29, p.97
High-duty irons reduce die costs, 9/15, p.95
Impacter for jet blades, 12/1, p.89
Lemco safety prop, ENG, 8/25, p.91
Plastic dies draw truck panels, 9/15, p.92
Plastic dies for draw press, 12/15, p.122
Plastic dies:
  Hot development, 10/13, p.111
Plastic dies (see Automotive)
Storage system, 12/15, p.124
Welding doubles life of forging dies, 9/8, p.87
See Tool & Die Industry

Diesel Engine Manufacturers Assn.:
Officers elected, B, 12/1, p.175

Distribution:
See Warehousing, etc.

Drafting:
Adhesive tape saves drafting, 12/8, p.138
Drawing dimensions in their place, 8/25, p.115
Protractor, IE, 11/10, p.170
See Plant Layout

Drawing:
Insulating shells from nylon, 8/18, p.116
Stainless tubing, 8/18, p.94
Steel drawability measured, J&L, 8/4, p.100
Titanium; It can be formed and drawn, 9/8, p.93

Drilling:
Carbide drill head, triple-edge off-center units, drill holes through oil well drill collars, 11/3, p.105
Lockheed's two-story drill for hole spotting, 8/18, p.102
See Machine Tool Attachments

Dust Collectors, Filters:
AIME discusses hooded control for electric furnaces, 12/29, p.82
Air sampling, Harvard lab special glass cloth filter, ENG, 12/29, p.71
Booklet, dust filters, 10/20, p.102
Capturing dust in gases, J&L, 8/4, p.105
Diamond dust collector, IE, 10/6, p.130
Dust collector, outside exhaust, IE, 8/11, p.124
Dust collector, self-contained, IE, 7/21, p.138
Gas washing installation, AS&W, Donora Wks., 10/13, p.304
Vulcanaire collector cleans grinding dust, IE, 7/14, p.141
Wet dust recovery, 8/11, p.98

E

Economic Stabilization Adm:
DiSalle heads, 12/22, p.41
Putnam to resign, 11/17, p.50
See Office of Price Stabilization
See Office of Salary Stabilization
See Wage Stabilization Bd.

Editorials:
A Dream Coming True (Fairless Works), 9/22, p.77
A Question of Power (labor unions), 9/1, p.49
Challenging Role (Humphrey and Wilson), 12/1, p.43
Costly Lesson (steel strike), 8/4, p.57
Crusading Spirit (Sen. Nixon), 9/29, p.43
Exhilarating Challenge (1953), 12/29, p.39
For and Not Against (For freedom, not merely against communism), 11/17, p.53
Freedom Is The Answer (auto engineering), 9/15, p.59
Good Will Toward Men, 12/22, p.31
Hope and Challenge (election results), 11/10, p.65
How You Can Help! (C. B. Randall's book), 7/14, p.51
Join This Crusade! (Voting), 8/18, p.61
Lies About Business (Cone addresses advertisers), 7/7, p.57
Never Again ('52 election campaign faults), 11/3, p.59
Now or Never (election-party change), 7/21, p.55
Our Golden Opportunity (Voting), 10/27, p.39
Overripe for Reform (Labor Dept.), 12/8, p.61
Sinister Monopoly (C. E. Wilson explains), 10/20, p.57
The Golden Egg (Lewis demands), 8/25, p.59
The Only Hope (H-bomb will cause men to unite), 11/24, p.65
The Real Threat (technologic-economic effect on small firms), 10/6, p.43
Too Much Power (Unions), 7/28, p.43
Two-way Squeeze (V transportation demands), 8/11, p.51
We're Masters, Not Slaves ("machine management"), 9/8, p.53
Your stake in jetomics (National Metal Congress), 10/13, p.115

Elections:
Election issues, management should act, 8/4, p.68
Labor opposed to Eisenhower", 7/21, p.66
What can industry expect (Eisenhower-Stevenson), 9/15, p.74

Electric Power:
Afcan's Aces: Cheap hydro power, 8/18, p.76
Alcoa plant, Quebec, pic., 12/15, p.116
Kuwait units shipped, 8/25, p.116
Pacific Northwest curtailment, 10/20, p.53; 9/8, p.49
Plant power system, 12/29, p.72
Power output stabilized: Nordburg engine at Consumers Steel, 9/8, p.94
Transformers (see Electrical Equipment)
See Capacity
See Motors, Generators

Electrical Contractors and Dealers:
Meeting, 7/14, p.65

Electrical Equipment:
Alarms for plant protection, 10/20, p.72
Alarm silencing relay, IE, 9/29, p.131
Aluminum conductors studied, 12/8, p.126
Arc welder and battery charger, IE, 10/6, p.134
Arc welding ground clamp, IE, 12/15, p.161
BX armored cable, IE, 9/8, p.152
Ballast circuit for fluorescents, 10/13, p.290
Cable has aluminum bus bars, Reynolds, 9/22, p.184
Cable rating up, GE, 9/22, p.183
Cable under N. Y. harbor, 10/6, p.166
Cable Ordnance OK, 11/10, p.106
Capacitors improved, Army Signal Corps, 7/21, p.118
Capacitors improved, OTS, 12/1, p.118
Center-break switches, IE, 10/13, p.330
Circuit breakers, outdoor power, IE, 8/18, p.135
Circuit breaker, plug-in, IE, 9/15, p.166
Circuit breaker designs, 11/24, p.122
Circuit extension, portable, pic., 7/7, p.118
Controls show only meter, IE, 8/11, p.128
Contact-making instrument, IE, 9/1, p.122
Contactors, long contact, arc chute life, IE, 11/10, p.169
Crimping tool, IE, 10/6, p.121
Engine-driven welder, IE, 8/4, p.143
Engine-driven welder, IE, 12/1, p.134
Furnace control, short-cycle test, 9/29, p.106
Gang-operated disconnect de-energizes fuses, IE, 11/24, p.133
House wiring backlog, 7/14, p.65
Hysteresis brake, GE, IE, 11/17, p.153
Insulation tester, IE, 11/10, p.178
Lead-lag ballast in two-lamp sizes, IE, 9/15, p.167
Limit switch, IE, 12/29, p.95
Luminaire, shallow surface, IE, 12/29, p.103
Mercury switch, IE, 8/4, p.160
Mercury transformers, IE, 7/7, p.148
Mill drives (Electric brains expand steel's muscle), 11/3, p.106
Mill regulators, book, 11/17, p.136
Phase sequence relay, IE, 7/21, p.144
Photoelectric control, IE, 8/18, p.148
Photoelectric unit, IE, 12/29, p.95
Pressure switch, IE, 11/24, p.133
Protective relay, IE, 8/18, p.146
Radio frequency voltmeter, IE, 8/11, p.130
Rectifier for work stations, IE, 12/1, p.147
Rectifier unit, IE, 12/15, p.161
Rectifiers, titanium oxide improvements, NBS report, 7/14, p.94
Refinery-type limitamp, IE, 5/29, p.118
Ring-type rheostats, IE, 11/3, p.154
Rotary actuator, IE, 7/7, p.144
Selenium rectifier arc welder, IE, 12/1, p.134
Soldering iron, IE, 9/8, p.155
Solderless terminals, IE, 11/10, p.180
Stator (giant) handling, East river, 8/25, p.102
Stepping switch, IE, 12/15, p.172
Switch for tank pressure, 12/8, p.116
Switch, metal-enclosed, IE, 12/22, p.92
Switch, waterproof, snap-action, IE, 7/14, p.146
Switchmats, 9/22, p.180
Synchronous inverter, IE, 10/6, p.133
Tellurium copper for electronic connectors, 7/28, p.94
Terminal crimping tool, IE, 12/15, p.175
Transformer cores ribbed, 7/14, p.128
Transformer (pic) for atomic energy project, 11/10, p.209
Transformer noise taped, 7/14, p.107
Transmitter, 29 ounces, 12/8, p.122
Transmitter cubicle for Voice of America, 9/22, p.86
Transmitter-differential pressure, IE, 11/24, p.144
Valve controls, IE, 9/29, p.118
Volt ammeter, IE, 7/7, p.153
Volt measuring reactor, IE, 9/1, p.111
Volt selector for motors, IE, 7/14, p.146
Water cooler, IE, 9/8, p.111
Winding tester, portable, IE, 7/21, p.143
Wire connectors, IE, 10/6, p.137
See Motors, Generators

Electrochemical Society:
Montreal meeting report:
  Plating methods, 12/1, p.82
  Indium metal, 12/8, p.98

Electrodes:
Air-cooled welding torch, Navy, ENG, 11/17, p.85
Carbon electrodes, '53 estimates, 12/1, p.50
Hard facing electrode, IE, 9/15, p.168
Holders and electrodes, IE, 10/6, p.134
Stabilizer balances moisture, IE, 7/14, p.138

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Welding die adaptor, IE, 11/17, p.154
Welding rod shipments, 10/27, p.46
Welding with stainless steel electrodes, 10/13, p.304

Electronics:

Business
  Electronics help industry planners, 12/15, p.119
  Production, annual rate, 7/7, p.54
  Production rise, 10/20, p.72
  Recession feared, 12/15, p.77
  Sales, 12/29, p.35
Brake control, 11/17, p.117
Cold cathode triode tube, IE, 9/1, p.124
Dynamic balancer, IE, 10/20, p.131
Electron microscope, 7/21, p.109
Electronic flow meter, IE, 10/13, p.333
Electronic micrometer measures without pressure, IE, 12/29, p.103
Electronic scale, 11/10, p.156
Electronic timer, IE, 9/8, p.150
Electronic vacuum motor shutoff, IE, 10/27, p.110
Goodyear Aircraft analyzer, 9/1, p.88
Locates friction noises, IE, 12/8, p.158
Microwave, 12/29, p.13
Molten steel temperatures detector, 10/13, p.262
Office electronics, 9/22, p.190
RCA exhibits, 12/8, p.138
Time delay relay, IE, 12/15, p.168
Winding tester, portable, IE, 7/21, p.143
See Business
See Counters, Computers

Electroplating, Plating:

Aluminum plating, [illegible] added, ENG, 12/22, p.63
Anode basket, IE, 7/7, p.151
Business prospects better with NPA lifting nickel restriction, 11/24, p.71
Chrome plating adds to truck life, Lockheed, ENG, 8/11, p.81
Chromium plating pays off for steel mills, 11/24, p.108
Drag-out stations, savings derived, ENG, 10/13, p.147
Flame plating, 9/29, p.82
Heating pickle liquor by submerged combustion, 12/15, p.114
Ion exchange: New hope for waste recovery, 10/20, p.96
Low pH nickel strike is an alternate, ENG, 7/21, p.87
Plating barrel, 3-pt suspension, IE, 11/3, p.157
Plating methods (Montreal meeting), 12/1, p.82
Titanium gets moly coat by vapor method, ENG, 12/29, p.71
Volume plating increases gun tube life, 11/17, p.89
Zinc fluoborate plating bath for electrogalvanizing wire, ENG, 11/24, p.97

Employment, Unemployment:

Aircraft employment soars, 11/17, p.49
Defense civilian employment down, 11/10, p.62
Federal employment, 10/13, p.126
Machine tool companies to increase, 10/27, p.90

Engineer Research & Development Laboratories:

Metal adhesion test, 8/11, p.110

Engineers:

College enrollment up, 9/15, p.56
Corrosion engineer meeting discussion, 10/6, p.100
Dr. Philipp: how an inventor and engineer operates, 10/13, p.79
Detroit SAE hears Maurice Olley, 10/13, p.134
Fritz Medal awards, 8/11, p.110
Recruiting up, 8/18, p.125
Visual aid dramatizes casting story to groups, 9/15, p.112
Women on staffs, 11/10, p.61

Engines:

Aircraft (K-F) radial engines machined in complex setups, 9/15, p.97
Engine blocks: Sandwiched from simple castings, 9/1, p.89
Checker Cab bus engine (pic), 12/1, p.62
Diesels at Packard new, 9/1, p.90
Diesel at Caterpillar new, 9/15, p.137
Gas ignition system, 11/10, p.126
Jet afterburners, supersonic speed, 10/20, p.102
Jet propelled by exhaust gas, 12/8, p.119
Jet, Westinghouse, 9/8, p.63
Jets (see Welding)
Tank engines, Chrysler, 12/22, p.49
Metals in the jetomic age, 10/13, p.148
Nordberg engine: Power output stabilized, 8/8, p.94
See Aircraft

Europe:

Amazing recoveries by European technology, 7/7, p.71
Competition (U. S. men report), 11/10, p.81
Economic series
  Italy, Sweden, 12/8, p.76
  France, Belgium, 12/15, p.86
  Great Britain, West Germany, 12/22, p.46
  Western Europe (summary), 12/29, p.54
Europe points toward exports, 7/21, p.69
Foreign aid (see Gov't-FTC, MSA)
High price steel ended, 8/11, p.65
MSA (see Government)
Schuman Plan rifts remain, 9/22, p.91
Schuman Plan standard, 12/1, p.57
Wage demands: U. K., Belgium, 9/1, p.63

Expansion:

Alcoa may seek partner in Alaskan project, 9/8, p.57
Aluminum, seek 4th private producer, 9/1, p.46
Aluminum sheet mill new, 12/1, p.40
Chemicals, $5 billion boom, 10/20, p.65
Coke capacity, chart, 8/18, p.72
DMPA approvals, 8/25, p.66
DPA: Caution marks new expansion plans, 11/3, p.65
DPA goals, 8/11, p.58, 8/18, p.68, 8/25, p.66, 12/15, p.81
DPA goals for railroads, vessels, copper wire, 8/8, p.58
Defense priorities, 8/11, p.58
Defense timetable, 10/20, p.64
Electric power hit by steel strike, 8/11, p.57
Expansion: $20 billion yearly to 1960, 10/6, p.50
Gas boon to metalworking, 11/3, p.74
Houston area, metalworking, 7/28, p.40
Metals-minerals, goals by '55, 9/29, p.48
Metalworking-'53, 12/22, p.35
Private financing problem, 7/28, p.39
Railroads, projects coming, 8/4, p.53
Railroad timetable, 8/18, p.68
Refractories, DPA goals, 10/13, p.292
Rolling mills installed since Jan. 1, still to be installed (companies), 9/22, p.158
Steel, expansions (companies), 9/22, p.155
Steel: how does it match our economy?, 9/22, p.111
Steel (see Capacity)

Exports, Imports:

See Foreign Trade

Extrusion:

Centerless belt grinds extruded tubing stock, 12/8, p.102
Cold extruding from steel slugs and blanks: foreign process, ENG, 10/27, p.71
See Presses
See Lubricants

F

Fabrication & Assembly:

Floating anchor aids aircraft assembly, 8/25, p.115
Handling costs cut in parts assembly, 9/1, p.85
Jet engine welding applications, 12/29, p.76
Metal stitcher at Lockheed reduces sieve assembly time, 8/18, p.102
Riveting (see Fasteners)
Test first, then fabricate: ASTM members told, 7/14, p.91

Fairless Works:

Fairless Works: Steel Man's Dream, 9/22, p.121

Fans, Blowers:

Centrifugal fan, IE, 7/7, p.148
Industrial fan, three-purpose, IE, 10/6, p.122
Transonic wind tunnel for, 7/7, p.112

Farm Equipment Institute:

Allis-Chalmers president reports, 12/8, p.69

Farms:

Electrical uses, 11/17, p.50
Electrification figures, 10/13, p.126
India Point Four program, 7/21, p.69
Machinery sales, chart, 7/21, p.63, 12/8, p.68
Uni-Harvester machine, 9/22, p.84

Fasteners, Fastening:

Aircraft riveting, pushbutton control, 7/7, p.126
Anchor bolt assemblies, IE, 8/18, p.146
Angle aids blind riveting, IE, 9/29, p.127
Auto use, ENG, 12/15, p.103
Automatic fastening gun, IE, 10/27, p.107
Automatic nailing machine vs hand methods, 10/13, p.280
Bolts plated with tin-zinc alloy, ENG, 10/13, p.147
Cut thread stud, IE, 11/3, p.157
Fastener for tight casings, airborne equip., 12/8, p.125
Fasteners outlook: Shortages ahead, 7/7, p.63
Floating anchor aids aircraft assembly, 8/25, p.115
Miniature stop nuts, IE, 12/22, p.90
Nuts, new methods at Jacobson Mfg., ENG, 7/7, p.89
Rivet for fragile materials, IE, 9/15, p.162
Rivet selector, 7/14, p.124
Rivet with alligator attach., 9/15, p.132

Felt Assn.:

Standards set for felt, 10/13, p.310

Filters:

See Dust Collectors, Filters

Financial:

Annual household purchasing power (1929-52), 12/22, p.27
Bethlehem, Inland 2nd quarter earnings, 8/11, p.57
Bonuses, Christmas, 12/15, p.77
Dividends, Nov., 12/15, p.68
Employee stockholding: Capital-labor tie, 7/21, p.62
Employee stockholding, Leeds & Northrup, 7/21, p.62
Excess profit tax to expire in June?, 9/1, p.60
Export-Import Bank credit to Falconbridge, 11/17, p.50
Foreign income '51, 9/8, p.69
Foreign investment law (see Foreign Trade)
GM figures: cost clue, 11/10, p.84
Hidden payroll costs: unreported fringe benefits, 9/22, p.84
Iceland loan, B, 9/22, p.242
Iron-steel federal tax, 10/6, p.40
J&L report, 8/25, p.65
K-F losses, 8/18, p.58
Manufacturing, total assets table, 7/7, p.64
Metalworking, profits after taxes, 11/24, p.72
Metalworking sales-profits, chart, 10/13, p.119
Mills Law increases in 1st-half tax payments, 11/10, p.72
Personal income-May, 7/21, p.52
President's midyear budget report, 9/1, p.60
Private financing of future expansions a problem, 7/28, p.39
Republic earnings down, 8/18, p.66
State tax collections '52, 9/29, p.40
Steel earnings, 3rd quarter, chart, 11/3, p.64
Tax intake '52 estimate, 9/15, p.56
U. S. Steel Corp. report, 9/1, p.59
Westinghouse report, 12/29, p.49, 8/4, p.54

Finishes, Coatings, Paints:

Aircraft coating, 7/28, p.102
Aircraft fuel tanks (slip covers), 9/1, p.87
Alclad coating protects tube welds, 11/3, p.116
Aldip coating, GM, 7/7, p.75
Aluminum antirust paint, IE, 8/25, p.136
Aluminum coatings, IE, 9/1, p.124
Aluminum paint, ready-mixed, IE, 8/4, p.160
Antirust paint, IE, 12/8, p.149
Belt dressing in spray container, IE, 8/18, p.146
Bolts coated with tin-zinc alloy, ENG, 10/13, p.147
Can-lining enamels, 9/8, p.128
Ceramic as tubing media, 12/8, p.117
Ceramic coating for ladles, ENG, 10/6, p.75
Ceramic coatings prevent carbon absorption by stainless in aircraft exhaust systems, 8/18, p.116
Ceramic coatings protect against oxidation, corrosion, 11/3, p.100
Chromium-frit coatings bonded by moly aid jet life, 8/11, p.97
Coated abrasive for tapered aircraft skins, 8/25, p.98
Coated abrasives, special report, 8/25, p.92
Conveyorized coating, 12/8, p.119
Conveyorized dipping, ENG, 10/6, p.75
Derusto in aluminum finish, IE, 10/6, p.134
Drum spray pump, IE, 10/6, p.137
Finisher coats material, IE, 7/14, p.144
Galvanite protects iron, steel surfaces, 7/21, p.128
Graphite coat cuts sinter loss, 7/28, p.102
Heat resistant paint, IE, 8/18, p.151
Hot dip aluminizing affords protective surface, 7/14, p.100
Ingot mold wash (Syncoat) ends coating fumes, 12/8, p.106
Lorain crane coating (pic), 11/10, p.106
Manifold finish, 11/17, p.150
Metal coatings, IE, 9/22, p.206
Metals protection, Permyron process (mild steels), 7/28, p.99
Molybdenum coatings on titanium by vapor plating method, ENG, 12/29, p.71
Nail corrosion coat, ENG, 12/29, p.71
Nu-Pon, resin-base finish, IE, 9/22, p.206
Organic finishing line, IE, 12/15, p.164
Parco Black, finish for iron and steel, IE, 9/29, p.128
Paint primes, seals, finishes, IE, 7/7, p.153
Phenolic resin coatings (see Chemicals)
Pipe life extended by porcelain enamel coating, 7/7, p.98
Platers use (see Electroplating)
Porcelain enamel coating, 11/17, p.112
Porcelain enamel-single coat, no chippage, ENG, 11/24, p.97
Primer dev., Prufcoat Lab., ENG, 11/3, p.91
Primer for steel, iron, IE, 7/21, p.146
Propellers on seagoing aircraft, nickel coating, ENG, 7/7, p.89
Rubber coatings applied to v-belts control system, 8/11, p.87
Siding, enameled-steel, 12/15, p.146
Slip covers (coating) for fuel tanks, 9/1, p.87
Spray booths, Pullman Co., ENG, 8/18, p.93
Spray gun, IE, 7/14, p.151
Spray gun, IE, 9/8, p.143
Spray gun, IE, 10/6, p.122
Spray gun, IE, 12/1, p.136
Spray gun mixes catalyst paint, 10/20, p.120
Spray guns, business report, 8/18, p.69
Spray paint school, 7/28, p.94
Stencil eases dial spraying, 12/29, p.85
Synthetic coating, Pozcote, IE, 10/13, p.336
Tube-coating, Navy, ENG, 10/6, p.75
Varnish remover, ENG, 11/10, p.97

Fire Equipment:

Coke plants explosion proofed, 7/7, p.110
Corrosion inhibitor, ENG, 12/8, p.93
Extinguisher cart, IE, 10/20, p.140

Fire truck at Chevrolet Baltimore, 10/20, p.121
Plant protection, 10/20, p.72
Truck aids fire-fighting, 12/8, p.143

Fittings: See Pipe, etc

Flame Cutting:
Blowpipe cutting attach., IE, 10/13, p.330
Link-Belt machinery, pic., 12/8, p.70
Machine-cutting blowpipe prepares steel castings for welding, 10/13, p.284
Metalcutting carriage, IE, 8/18, p.138
Monarch Machine: Lathe bed ways hardened under fire, 12/29, p.86

Floors:
Flintcrust stops sanding, IE, 9/29, p.137
Floor patch kit, IE, 11/10, p.175
Floor resurfacer, IE, 10/20, p.136
Gondolas get malleable steel floors, 7/7, p.54
Latex-O-crete, IE, 9/15, p.168
Plastic resurfacer, IE, 8/11, p.133
Rezilo, resurfacer, IE, 9/22, p.208
Steel bridging reinforces, 11/10, p.111
Steelhard resurfacer, IE, 7/21, p.151
Water-borne sand makes mine floors, 8/11, p.92

Fluorspar:
DMPA aids St. Lawrence Fluorspar Inc., B, 8/4, p.187

Flux:
Silver brazing flux, IE, 8/25, p.136
Solder is noncorrosive, ENG, 7/28, p.75

Ford Foundation:
Resourcers meeting, 12/22, p.42

Foreign Trade:
American exporters look for a way out, 11/3, p.73
American metalworking exports name foreign competitors, 11/3, p.74
Belgian exports firm, 10/20, p.71
Belgian steel exports, 9/15, p.73
Bethlehem exports '53, 11/10, p.62
British car exports up, 9/8, p.69
Coal exports, first half, 7/28, p.39
E.P.U. market price quotations, 10/20, p.71
European competition: U. S. businessmen report, 11/10, p.81
Export opportunities info. mailing list, 7/28, p.54
Export quotas, set, 12/1, p.57
Export surplus (chart-merchandise exports-imports), 9/8, p.69
Europe points toward exports, 7/21, p.69
French import duties suspended on machinery, 10/20, p.71
Germany exports less, 9/15, p.73; 10/13, p.129
Germany ups U. S. imports, 8/4, p.71
ICDV-new export rule, 9/8, p.62
Industrial diamonds, imported per yr., 11/10, p.62
Investment law rev., 8/11, p.65
Investment loss, agreements protect against, 7/7, p.68
Machine tool imports high, 10/20, p.71
Microscope imports up, 9/8, p.63
Motorcycles import bike rejected by U. S., 8/4, p.71
Scrap export quotas, 10/13, p.129
Steel export curb lifted, 8/18, p.69
Steel export demand changes, 7/14, p.65
Steel imports, no rise during strike, 7/28, p.48
Syracuse Smelting Works plant, Italy, overcomes export restriction, 8/11, p.65
U. S. Import Duties '52 published, 11/17, p.84
See Financial

Forging:
Boiler plate formed faster, 8/11, p.84
Chevrolet: Induction heating for forging transmission gears, 9/8, p.88
Crankshaft - continuous forging, 9/29, p.78
Forging on the fly (Impacter), 12/1, p.89
Hammer shipped, ENG, 12/22, p.63
Hammer, steam-operated, floats on concrete raft, 10/13, p.256
Impacter, forging in mid-air, 11/3, p.67
Impacter forges jet blades, 12/1, p.89
Kaiser presses, 7/7, p.65
Rotor disks forged by Bethlehem for NACA Ames Aero. supersonic wind tunnel (One way to handle a big forging job), 10/6, p.76
Rotors formed by rocking rolls into shape, 10/13, p.252
Spring isolated hammer tested, no shock, ENG, 9/1, p.81
Titanium forging experience mounts, 12/15, p.104
Tool steel claw hammer output, new process, 9/8, p.86
Tube forging process saved by use of Aquadag lubricant, 11/3, p.132
Willys new hammers, 7/21, p.106
See Presses

Forming, Bending:
Boiler plate formed faster, 8/11, p.84
Compression-formed tubes, 12/8, p.143
Springback problem in metal forming, 8/4, p.90
Steel drawability measured in a minute, 8/4, p.100
Titanium: It can be formed and drawn, 9/8, p.93

Foundry:
Buick castings cleaning dept., 9/1, p.68
Cinder pot manufacturing, 10/20, p.90
Core box system simplified, ENG, 10/13, p.147
Domestic graphites for crucibles, 11/10, p.148
Ford foundry, 12/1, p.51
France asks MSA to send tech. group, 10/6, p.54
Gray Iron adv. com. sees pass-through not reflecting wages, 9/22, p.84
Nylon stops sand abrasion on core boxes, ENG, 8/4, p.89
Quality control: It's in the reach of small foundries, 11/17, p.86
Sand dryer, 11/3, p.102
Shell molding (see Casting)
Shot of calcium carbide in cupola, cost saver, ENG, 10/27, p.71
Yugoslavia metallurgists tour, 11/10, p.76
Zircon sand for foundry use, IE, 7/28, p.115
See Casting

France:
Machine tools: No direct aid, 7/7, p.71
Metallurgical group honors Dr. Bain, B, 11/10, p.207
Requests U. S. foundry team, 10/6, p.54
Rolling mill at Denain financed, 11/10, p.81
Steel price roll back, 10/13, p.120

Franklin Institute:
Resistance welding lectures by Elihu Thomson, 7/21, p.91

Freight, Freight Rates:
Air freight, 12/29, p.46
Freight car deliveries decline, 9/29, p.50
Freight car goal: DTA report, 12/8, p.69
Freight car restrictions ease, 7/7, p.63
Freight cars in use '50, '52, 8/18, p.68
Freight car want-Railroad Assn., 12/1, p.59

Fuel:
ASME meeting report, 12/15, p.140
Chart-production increases since 1939 (coal, gas, oil), 9/29, p.47
Fuel supplies: Weather's the big "if", 10/27, p.47
Helium for industry, ENG, 10/20, p.89
Motor fuel storage, 7/21, p.127
See Gas

Fumes: See Pollution

Furnaces, Ovens (Heating, Heat Treating):
AISE told to watch for timesavers, 11/3, p.138
Arc furnace smelts zinc, 10/13, p.268
Ash deposits on boiler tubes from residual fuel oil controlled by additive, 7/21, p.120
Atmosphere furnace eliminates second-operation cleaning, 9/1, p.92
Automatic heat treating unit features forced convection heating, IE, 12/29, p.98
Barrel furnace, pic., 10/13, p.270
Batch-type furnace, pic., 10/20, p.113
Beehive ovens (see Coke Ovens)
Bench-type furnace, IE, 7/7, p.137
Bottled gas fired furnaces, IE, 12/8, p.149
Box and muffle furnaces, IE, 11/17, p.166
Burner control, IE, 7/7, p.150
Car bottom furnace eases heavy-section loading, IE, 11/10, p.169
Carbonitriding furnace line, IE, 7/14, p.135
Catalytic burner aids solve gas odor, 12/15, p.143
Chilled salts protect linings, ENG, 11/10, p.97
Continuous annealing furnace, IE, 10/13, p.327
Continuous porcelain enamel fusing furnace, 8/11, p.97
Converts melt shop to all-electric at Timken, 8/25, p.110
Converts to hot atmosphere for annealing welded stainless tubing, 9/8, p.131
Device adjusts boiler fuel-air, 12/1, p.126
Electric unit heaters, IE, 12/1, p.141
Far-infrared dries plaster molds evenly, 8/11, p.112
Far-infrared oven bakes paint on meter parts, pic., 10/20, p.122
Forging furnaces, IE, 8/11, p.119 and 10/27, p.112
Furnace tilting, ball bearing assembly, 9/15, p.100
GM, largest furnace in research metallurgy dept., pic., 7/7, p.75
Graphite coat cuts sinter loss on metal rings, 7/28, p.102
Heat treater for commercial cleaning, 9/15, p.142
Heat treating furnaces harden high-speed tool steel, IE, 11/3, p.152
Heat treating furnace speeds implement, anchor products, 12/8, p.128
Heat treating unit, IE, 7/28, p.107
Heating installation cost cuts in half, gas-fired unit heaters, 10/20, p.94
Immersion heater, IE, 9/22, p.198
Induction furnace feeding conveyorized, 7/7, p.100
Investment casting furnace combines chamber-transformer, IE, 12/15, p.157
LP oil burner, IE, 12/1, p.142
Liquid flame heating, ENG, 11/24, p.97
Kropp furnaces, pic., 12/29, p.90
Luminous flame increases heat transfer (Holland experiment), 8/1, p.95
Molten metal discharge unit, IE, 10/13, p.338
Oil atomizing inserts, IE, 11/17, p.154
Oil burner uses atomizing air, IE, 12/1, p.142
Oscillating conveyor for furnace, 7/7, p.100
Pedal operated furnace door, IE, 7/21, p.135
Pilot for gas burner, 10/13, p.290
Roller hearth furnace, IE, 11/10, p.176
Stainless inserts aid induction furnace design, 8/4, p.102
Twin retorts, pic., 8/4, p.189
Twin Simplytrols, heating controls, IE, 9/15, p.165
See Blast Furnaces
See Induction Heating
See Heat Treating & Annealing
See Open Hearths

G

Galvanizing:
Cold galvanizing protects iron and steel, 7/21, p.128

Gaging:
Gage Blocks: New system widens applications, 11/24, p.98
Nuclear gaging control coated abrasives, 8/25, p.94
Optical gaging checks 41 dimensions in 40 seconds (rotor parts for shell booster), 7/28, p.78
Shell gaging, industry-army cooperate to cut costs, 11/10, p.74
See Instruments, X-Ray

Gas:
Gas-Boon to metalworking, 11/3, p.74
LP sales down, 12/29, p.35
LP starter for turbines, 11/10, p.111
Leak detector, ENG, 12/29, p.71
Synthetics: Bureau of Mines report, 8/11, p.62

Gas Appliance Manufacturers Assn.:
Sales boom, 12/29, p.44

Gears:
Business, gear makers report, 9/8, p.61
Case hardening, Buick, pic., 9/22, p.176
High speed reduction gears, IE, 10/13, p.333
Powdered gears, 11/10, p.133
Transmission gears forged at Chevrolet by induction heating, 9/8, p.88
Worm gearing for plug valves, 9/1, p.97

Generators:
Power output stabilized (Nordburg engine), 8/8, p.94
See Motors

Germany:
German labor aims at management, 9/1, p.63
Pig iron without coke, new process, 8/4, p.71
Production, 9/29, p.57
Steel flow: To, not from, Germany, 9/15, p.73

Glass:
Sealing, tin-indium used, 12/8, p.99
See Lubricants

Gerontological Society of Washington:
Retirement policies discussed, 9/15, p.70

Government:
Agency changes contemplated, 8/18, p.70
Agencies scrutinized by House Com., 12/1, p.49
Antitrust reversal?, Sawyer praises report, 12/29, p.44
BLS:
  Average hourly earnings, 9/1, p.53
  Hidden payroll costs, 9/22, p.84
  Wage contracts, base changes, 12/29, p.36
  Weekly index, finished steel prices, 9/8, p.28
Book, minerals survey, 9/1, p.60
Booklets, etc., issued, 9/22, p.88
Budget conscious, 11/10, p.61
Bureau of Mines:
  ASA coal mine code, 12/8, p.120
  Coal, multiple blasting, 8/18, p.120
  Cuyuna Range manganese probe, 12/29, p.48
  Device tests structure strains, 8/4, p.119
  Electrolytic manganese is substitute, 7/21, p.112
  Fly ash disposal, 8/18, p.120
  Helium for industry, ENG, 10/20, p.89
  Manganese experiments, 7/28, p.54
  Respiratory devices, 7/28, p.98
  Synthetic fuel, 8/11, p.62
  Tin scrap, electrorefining, 12/1, p.84
  Titanium, Boulder lab research, 8/4, p.68
Christmas gifts, prohibited, 11/10, p.76
Cole succeeds Ching, (FMS) 10/13, p.111
Commerce Dept.:
  Technical show exhibit, 11/10, p.133
  Trade committee restored, 12/1, p.54
Congress adjourns, 7/21, p.66
Congress gives inventors rev. patent law, 8/11, p.62
Congress ok's IMC, 7/28, p.59

Congress should simplify procurement, 8/18, p.72
Contractors win court appeal, 7/21, p.64
Crawford (Rep.) to open offices, 11/17, p.64
Durkin, Sec'y Labor, 12/8, p.57
Eisenhower agencies await, 12/29, p.50
Eisenhower, what industry can expect, 11/10, p.69
FCC:
  Amateurs requirements listed, 9/29, p.54
  Heating spec shelved, 7/7, p.68
  TV stations ok'd, 11/10, p.61
Federal catalogs, 10/20, p.68
FTC:
  Basing point cases, 12/1, p.39
  Chairman Mason (Lowell), 11/24, p.62
  Pricing policies, 12/8, p.65
  Splits Economic Div., 9/1, p.45
  Study consumer dollars and where they go, 10/6, p.53
GSA:
  Cancellation (machine tools) payment, 12/1, p.54
  Lead stockpile, 7/28, p.40
  Lucerne Coke loan, beehive ovens, 10/6, p.54
  Nicaro nickel plant, 12/29, p.49
House committee chairmen (chart), 12/8, p.72
Housing research listed, 12/29, p.50
IMC approval, 7/28, p.59
Labor Dept.:
  Advisory services for WSB end, 9/8, p.63
  Book: how to broaden skills, 10/20, p.121
MSA:
  Bell comm. chairman, 9/8, p.66
  Marshall Plan projects, American ante, 9/8, p.69
  Small firms get nod, 7/21, p.69
  Yugoslavia investments to U.S. firms, 9/1, p.60
Maritime Adm.:
  Cargo ship order, 11/17, p.50
  Port facilities, 10/13, p.111
Mills Law, 11/10, p.72
Munitions Board:
  Engine standards, 8/25, p.115
  Plant protection standards, 7/28, p.54
  Reorganization bogged, 10/27, p.50
  Wood, vice chairman of the board, 11/24, p.61
NBS (see)
NLRB:
  Back pay awards pile up, 9/22, p.74
  Phelps Dodge ruling, 12/8, p.57
National Business Congress proposed, 12/22, p.42
National Planning Assn. (see)
OIT:
  Export rule ICDV, 9/8, p.62
  Export quotas, 1st quarter, 12/1, p.57
  Investment guides booklets, 12/29, p.50
OTS:
  Building substitutes, 7/28, p.54
  Lost wax casting study, 7/7, p.135
Metallurgical research, 12/8, p.131
  Motor fuel storage study, 7/21, p.127
  Nuclear data, 9/15, p.114
  X-ray study, 12/15, p.152
Paley advocates liberal laws, 9/22, p.73
Paley Commission, public forum scheduled, 11/24, p.62
Post Office vs Bell System (federal dep't's vs. private hands), 10/6, p.54
Preparedness Subcommittee - tin producers argue, 7/28, p.49
President's midyear budget report, 9/1, p.60
Presidential office reorganizing graph, 12/15, p.82
Pricing policies, 12/8, p.65
Public Health Service:
  Pollution circulars, 9/22, p.88
RFC:
  Seidelhuber loan, B, 8/18, p.175
  Tin contracts, 7/28, p.49
Resources meeting, 12/22, p.42
Robinson-Patman Act, de-emphasis foreseen, 9/1, p.45
Schism in Washington, 10/27, p.45 p.45
Senate committee chairman slated, 11/24, p.78
Senate members-industrialists, 9/8, p.50

Steel strike history recorded, 9/1, p.60
Stretchout debate, 9/15, p.65
Tariff changes, book, 11/17, p.64
Thorp resigns, State Dept., 12/1, p.54
Wilson, Humphrey, cabinet, 12/1, p.48
Wilson to balance spending, 12/15, p.75
See Defense

Graphite:
Artificial graphite (see Capacity)
Domestic graphites for crucibles measure up to imported, 11/10, p.148
Graphite coat cuts sinter loss, 7/28, p.102
New uses, atomic research, 8/11, p.106
Timken graphitic-type tool steel, 8/18, p.118

Gray Iron:
Additives (salt and calcium silicide) to gray iron increase strength, ENG, 11/17, p.85
Gray iron: Industry's workhorse, 9/22, p.85
High-duty irons reduce costs, 9/15, p.95
See Foundry

Gray Iron Founders' Society Inc.:
Meeting scheduled, 1/13, p.306
Meeting speeches, 10/20, p.66
Meeting, officers, 10/27, p.47

Great Britain:
Airplanes as exports, 7/7, p.71
Aluminum expansion in Africa, 12/1, p.40
International Tool Show, 11/3, p.73
Materials Handling Show, 7/21, p.90
Raw material outlook, 12/1, p.57
Steel output up, 9/22, p.91
Steelmaking rate, 12/1, p.57
U.K.-U.S. productivity: Ideas differ, 9/29, p.57

Grinding, Polishing:
Abrasive belts reclaimed by pressure blasting, ENG, 12/8, p.93
Belt performance with various contact wheels, chart, 8/25, p.97
Centerless belt grinds extruded stock, 12/8, p.102
Coated abrasives grind down costs, 8/25, p.92
Crush grinding produces intricate surface broaches, 9/1, p.103
Gear grinder wheels, IE, 10/6, p.133
Grinding, brush finishing done on one machine, 7/7, p.94
Grinding and cutting wheel output, chart, 12/1, p.50
Grinding shapes both sides of jet bucket Christmas tree, 7/21, p.88
Stainless polishing, air inflated grinders, 10/13, p.292
Web sheets ground to thickness tolerance of plus or minus, 11/17, p.110
See Industrial Diamonds

Greenville Businessmen's Assn.:
Camp Reynolds becomes producing plant, 7/21, p.70

Grinding Wheel Institute:
Elects officers, B, 12/1, p.180

Gunmaking:
Gunmaking: Artistry in steel, 11/10, p.73
Guns, cast steel shell, 11/10, p.76
Volume plating method increases gun tube life, 11/17, p.89

H

Hack Saw Manufacturers Assn. of America Inc.:
Revised hack saw blade standards, 11/3, p.122

Hammers:
See Forging

Hardening:
Flame hardening lathe bed rays, 12/29, p.86

Heavy Press Program:
Heavy presses challenge industry, 12/1, p.76
See Air Force

Heat Treating & Annealing:
Carbon content determines boron steel behavior, 10/13, p.155
Carbon solubility of chromium-nickel austenite tested, 11/10, p.153
Carburizing bath, ENG, 7/7, p.89
Check method, unstabilized stainless, ENG, 8/11, p.83
Direct resistance heating, 7/14, p.87
Far-infrared dries plaster molds evenly, 8/11, p.112
Far-infrared oven bakes paint on meter parts, 10/20, p.122
Fiberflax is heat resistant, 8/11, p.94
High temperature metallurgy: Jetomic age demands it, 11/3, p.98
Hot atmosphere (lithium vapor) for annealing welded stainless tubing, 9/8, p.131
Luminous flame increases heat transfer (Holland), 9/1, p.94
Magnesium alloyed with rare earths takes high temperatures, ENG, 11/24, p.97
New alloy, high strength and oxidation resistance at 2200° F, 11/17, p.90
Refrigerator slow hardening between heating-forming, ENG, 10/6, p.75
Sub-zero strain aging affects ingot iron properties, 9/1, p.86
See Furnaces, Ovens
See Induction Heating

Heating:
Luminous flame increases heat transfer (Holland), 9/1, p.94
Pickle liquor heating by submerged combustion, 12/15, p.114
Plaster molds dried evenly by far infrared, 8/11, p.112
William Penn installs sidewalk system, B, 7/14, p.178
See Furnaces, Ovens
See Induction Heating

Housing:
Booklet: A Survey of Housing Research, 12/29, p.50
Building outlook, 9/8, p.60; 11/24, p.62; 12/15, p.78
Construction total, 12/22, p.28
Gov't housing research list, 12/29, p.50
House trailer: $284-million business, 12/29, p.53
Ranch house, pic., 12/15, p.79
Rewiring backlog, 7/14, p.65

Hydrogen:
Hydrogen control still a problem, ENG, 9/8, p.85

I

Illinois Institute of Technology:
Armour manganese probe, 9/29, p.54
Armour new construction material, ENG, 9/22, p.109

Impregnation: See Casting

India:
U.S. partner in rural development program, 7/21, p.69

Induction Heating:
Chart, operating data, 9/8, p.96
High-geared production with induction heating: Chevrolet, 9/8, p.88
Induction furnace feeding conveyorized (oscillating), 7/7, p.106
Induction heating unit, IE, 11/3, p.164
Stainless inserts aid furnace design, 8/4, p.102

Industrial Diamonds:
Chrysler salvage, pic., 8/4, p.75
Dust collector, IE, 10/6, p.130
Industrial diamond consumption '52, 11/24, p.75
NPA clinic, 12/1, p.101
Need lessened due to electrical grinding, 12/1, p.104
Substitutes for diamond bort in grinding sought, ENG, 9/22, p.109
U.S. imports per yr., 11/10, p.62

Industrial Fasteners Institute:
Auto fasteners, report, 12/15, p.103

Industrial Furnace Manufacturers Assn.:
Opens offices, B, 12/1, p.178

Industrial Hygiene Foundation:
Noise research, 12/15, p.135

Industrial Mineral Fiber Institute:
Officers elected, B, 10/20, p.172

Industrial Real Estate:
Industry buys sites for expansion, 9/29, p.59

Ingots:
Chart, ingot output, 9/22, p.81
Kaiser develops giant aluminum ingot, 7/7, p.65
Sub-zero strain aging affects ingot iron properties, 9/1, p.86

Insert:
Weekly index of finished steel prices (BL statistics), 9/8, p.28

Installation:
Flexible metal hose, 7/21, p.103

Inspection, Testing:
Aircraft exhaust, micromagnet test, 12/1, p.113
Airplane structure, hydraulic jacks test, pic., 12/22, p.40
Aircraft wrecked to study safety, ENG, 9/29, p.75
Alloy (new) tough in the hot spots, 11/17, p.90
Altitude chamber tests simulate weather conditions, 9/8, p.96
Aluminum good yardstick for steel grain size, 11/17, p.96
ASTM members told: Test first, then fabricate, 7/14, p.91
Bearing testing uses electronic metals comparator, 7/21, p.104
Bench tests (GM) solve field problems, 11/24, p.102
Buffing test chart, 8/11, p.109
Cabinet, salt spray test, IE, 10/27, p.112
Cantilever creep test, alloys, 11/17, p.90
Carbide kit for corrosion tests, Carboloy, 7/14, p.124
Carbon tests (see Steelmaking)
Casting porosity checked, 11/10, p.111
Chrysler steering gear tester, 7/28, p.62
Construction tests (tunnels, mines, etc.), 8/4, p.119
Control relays, Warner & Swasey exec. report, ENG, 11/17, p.85
Control system eliminates human error (Gates Rubber Co.), 8/11, p.87
Crucible adds service, 8/4, p.130
Detroit Arsenal's mobile gage lab, 9/22, p.96
Dust in gases captured, J & L experiments, 8/4, p.105
Fast propeller shaft balancing, 9/29, p.100
Fly ash measured, 11/10, p.152
Furnace test (Holland), luminous flame radiation, 9/1, p.94
Furnace test, short-cycle control, 9/29, p.106
GE stress formula cuts test time, 8/18, p.125
Gaging (see)
Helicopter rotor blade strain test, 7/28, p.77
Hot radiography cuts weld inspection time, 10/27, p.72
Isotopes aid weld inspection, 8/11, p.88
Light rays detect metal bugs, ENG, 9/8, p.85
Mobile petroleum tanks tested, 9/29, p.106
Molten heat measured by balance detector, 11/10, p.106
Moly brittleness tests, causes, 7/28, p.98
NACA tests fretting, ENG, 12/22, p.63
NACA, forging job, 10/6, p.76
Navy wind tunnel, 7/7, p.112
Nondestructive testing: Quality with fewer end-product failures, 10/13, p.158
Pipe tested on production scale, 7/7, p.97
Quality control (see)
Radiography (see)
Range finders, pic., 10/20, p.66
Rubber temperature tester, 7/14, p.125
Scrap contaminated with uranium, 12/15, p.138
Sheet slide rule, 11/3, p.128

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Small quantities tested, new X-ray technique, 10/27, p.92
Spectrographic excitation unit: A key to essential control in boron steels, 10/6, p.92
Steel drawability measured, 8/4, p.100
Tin plate, gaging thickness, 12/8, p.112
Tool steel bars, ultrasonic testing, 11/3, p.96
Weld inspection (radiography), 10/27, p.72
X-ray gages show crop length of seamless pipe, 7/28, p.80
See Photography
See Standards

Instrument Society of America:
Instrument mechanic training program, 9/22, p.190

Instruments:
Adjustable speed changer, IE, 8/18, p.151
Balance detector measures molten heat, 11/10, p.106
Battery charge indicator, IE, 8/18, p.148
Beta-ray gage on continuous tinning line, 12/8, p.112
Bridge balance, IE, 9/15, p.155
Calibrator, IE, 8/4, p.156
Carbide thread ring gages, IE, 7/14, p.146
Clutch for instruments, ENG, 12/8, p.93
Comparator detects metal hardness in bearings, 7/21, p.104
Contact-making instrument, IE, 9/1, p.122
Camera microscope, IE, 9/22, p.204
Camera-wire recorder plot engine valves, 9/8, p.72
Control System eliminates error, Gates Rubber Co., 8/11, p.87
Coronagraphs probe sun, 9/15, p.138
Counters Computers (see)
Dial test indicator, IE, 7/7, p.150
Direct-reading projector reflects squareness, IE, 12/1, p.131
Drill Point-Chek, optically precise gage, IE, 11/3, p.162
Dynamic balancer, IE, 10/20, p.131
Dynamometer, IE, 9/29, p.134
Electric insulation tester, IE, 11/10, p.178
Extensometer dev., Battelle, ENG, 8/18, p.93 and 12/29, p.71
Fever thermometer, 7/7, p.104
Furnace atmosphere control, IE, 12/29, p.97
Gage block-carbide, IE, 9/15, p.168
Gage instruments, Detroit Arsenal mobile lab, 9/22, p.96
Gage measures auto-aircraft pistons, IE, 11/10, p.169
Gage shows crop point of seamless pipe, 7/28, p.80
Gage snubber, IE, 7/7, p.148
Gage tests helicopter rotor blade strain, 7/28, p.77
Gage-two way, used on artillery projectiles, pic., 7/14, p.99
Gaging head, IE, 9/15, p.167
Gear over-roll checked by pitch diameter gage, IE, 12/8, p.148
Gear rolling fixture checks, IE, 12/8, p.156
Geiger counter x-ray spectrometer, 12/8, p.128
Geiger-counter attachment for goniometers, IE, 7/28, p.115
Hardness readings, pocket-size tester, 7/14, p.110
Indicator snap gage, IE, 8/25, p.139
Industrial controls, conference report, 9/15, p.67
Instrument tubing harness-corrosion proof, IE, 8/18, p.151
Inverter, high sensitivity, IE, 10/6, p.133
Leak detector, ENG, 12/29, p.71
Limit load gage, 9/15, p.141
Magnetic flow meter gages molten metal flow, IE, 8/11, p.119
Magnifier electrically lighted, IE, 9/22, p.198
Magnifier, laminated plastic, IE, 7/28, p.111
Magnifier, self-illuminating, 10/20, p.116
Meter charts plating deposit, IE, 9/29, p.124
Meter measures air, gas flow, IE, 12/8, p.158
Micrometer—chrome finish, IE, 12/8, p.157
Micrometer (electron), IE, 12/29, p.103
Microscope (electron), 7/21, p.109
Nondestructive testing, pics., 10/13, p.160
Optical level measures surfaces, 9/15, p.132
Optical instruments, book, 11/17, p.123
Photoelectric smoke indicator, IE, 11/10, p.170
Polarizing microscope, IE, 8/18, p.135
Precision height gages, IE, 11/17, p.164
Pressure transducer, IE, 11/17, p.164
Proton bombardment analyzer, 11/17, p.132
Pyrometer-diesel engine, IE, 7/14, p.148
Pyrometer kit, IE, 7/14, p.148
Radiographic unit, portable, IE, 12/8, p.154
Recording potentiometer, IE, 8/25, p.126
Rivet selector, 7/14, p.124
Round-chart recorder, IE, 9/29, p.128
Scientific apparatus: Sales still climbing, 7/14, p.65
Smoke indicator; photoelectric, IE, 11/10, p.170
Solution tester, IE, 8/4, p.154
Static charge measured, 11/24, p.121
Strain gage meetings set, 10/13, p.270
Surface comparator, IE, 9/1, p.112
Surface electrical resistance indicator, 9/15, p.159
Surface resistance indicator, IE, 7/7, p.140
Tachometer heads, IE, 9/8, p.143
Tachometer kits, IE, 8/25, p.134
Teleplotter for missile trajectories, ENG, 8/25, p.91
Telescope, optical tooling, IE, 10/27, p.112
Telescopes tested, Westinghouse instruments, ENG, 8/18, p.93
Temperature-measuring, 8/11, p.91
Temperature measuring, portable, 11/17, p.136
Thermometer, hand grip, IE, 11/24, p.142
Titrimeter for quantitative determination of solutions, IE, 8/4, p.154
Voltage-measuring reactor, IE, 9/1, p.111
Welding analyzer, IE, 9/15, p.158
See Controls
See Electronics

Insulation:
Fiberflax, Carborundum, 8/11, p.94
Glass fiber relieves shortage, 7/21, p.63
Vermiculite keeps heat from worker's hands, 12/8, p.116

International Materials Conference:
Congress approval, 7/28, p.59
Sulphur allotted, 7/28, p.59
U. S. cobalt upped, 9/29, p.50

International Tin Research Council:
Changes name, B, 9/22, p.240

Inventories:
Aircraft idle and excess stocks, plant transfer, 8/11, p.59
Business inventories down, 7/14, p.48
Coke surplus now, shortage later, 8/18, p.72
Fowler views steel inventories, 9/8, p.66
Metalworking since 1949, will upward trend continue?, 12/8, p.75
Raw materials estimate, 12/1, p.47

Iron:
Ductile iron, Allis-Chalmers exec. reports method increases strength, 11/17, p.85
High-duty irons reduce costs (Meehanite), 9/15, p.94
Sub-zero strain aging affects ingot iron properties, 9/1, p.86

Iron Ore:
Cleveland-Cliffs prospects in northern Canada, 9/15, p.67
DPA offers rapid amortization, 8/4, p.65
Dominican ore to Barium, 11/24, p.62
Liberia wants higher royalties, 7/14, p.48
Liberia: More ore in store, 10/20, p.72
Ore yards empty, pic., 8/4, p.62
Productive capacity (present and projected) chart, 8/4, p.65
Prospects better, 8/11, p.47
Supply picture (chart), 10/13, p.122

Italy:
Syracuse Smelting Wks, smelting plant, 8/11, p.65

J

Japan:
Renault agreement, 8/11, p.65
Tokyo building boom, 10/13, p.129

Jet Engines:
See Casting, Engines, Machining

Jigs, Fixtures:
Adjustable tool holder, IE, 10/13, p.336
Aircraft tooling job completed in record time, 10/6, p.80
Air-operated bench vise, IE, 8/11, p.130
Chaser grinding fixture, IE, 10/27, p.103
Clamp for piston assembly, 10/13, p.316
Fixture clamp, IE, 11/24, p.133
Grinding fixture, IE, 10/20, p.145
Radial boring mill workholder, IE, 9/1, p.111
Safety vise for drill presses, IE, 9/8, p.139
Tool holder and adaptor set, IE, 8/18, p.146
Tooling program, jigs and fixtures in tight spot, 8/18, p.67
Toolmakers' parallel clamps, IE, 7/21, p.151
Universal grinding dog, IE, 10/6, p.137
Versatility in a jig, 12/29, p.74
Vise, built-in magnets, IE, 12/15, p.167
Vise jaws save slipping, IE, 9/22, p.197

K

Korea:
South Korean industrial scrapbook, 8/25, p.74

L

Labor:
AUW recruiting, membership gain, 9/1, p.53
Alcoa-CIO reconvene, 7/28, p.49
Aircraft workers' troubles, 10/13, p.112
Appliance makers strike, 7/7, p.62
Apprentice deferrals, 9/1, p.54
Automotive shortage, 10/13, p.133
Bonus payments, 12/15, p.77
Borg-Warner strike, demands, 9/1, p.67
Borg-Warner strike affects automotive, 9/22, p.95
Brass strike, Naugatuck Valley, 5th wk., 8/4, p.54, still in effect, 9/1, p.54
CIO and AFL long-term peace objectives, 9/1, p.53
CIO, candidates for president discussed, 11/17, p.61
Coal-soft (see Wages)
Copper strike possible, 7/7, p.62
Eisenhower opposition?, 7/21, p.66
Electrical workers seek increase, GE, 8/4, p.48
European wage demands, 9/1, p.63
Fabricators wage drive seen, 7/21, p.59
GM-UAW demands, 9/29, p.62
German labor aims at management, 9/1, p.63
Hiring favorable, survey reports, 7/28, p.40
Labor Round-up, organizers turn to smaller plants, 9/1, p.57
Lake seamen drive, 7/21, p.60
Lake seamen, union failure, 8/18, p.57
Letter which helped to vote down a union, 9/1, p.57
Management-employee relations: Thompson Products, 9/1, p.55
Market eases, 8/25, p.56
McDonald, acting—CIO, 11/24, p.61
Meany, AFL, president, 12/1, p.40
Molders lay off rumored, 9/1, p.54
Murray, Phil, retiring, 7/21, p.51
New labor policy shapes up, 11/17, p.60
Productivity formula debated, 10/13, p.120
Robertshaw-Fulton strike ends, 8/11, p.48
Skilled labor, scarce, 9/8, p.62
Small business, industrial relations, 11/17, p.68
Steel strike (See Steel-CIO)
Strikes of other years, pics., 7/14, p.55
Tool & die apprentice upgrading, 9/8, p.50
Union membership to date, 9/1, p.53
Union Security: Labor's grip tightens, 7/14, p.58
Union shop illegal in 13 states, 7/28, p.48

Lake Carriers' Assn.:
Iron ore fleet cargo shipments, 9/15, p.67

Latin America:
Steelmaking in Latin America, 11/24, p.79

Liberia:
Iron ore supplies, 10/20, p.72
LeTourneau expedition, gospel-industrialization, 9/22, p.91

Lighting:
Industrial lighting, IES review, 11/10, p.134
Miniature lamps, GE, 7/21, p.61
Westinghouse fluorescent equals 1000-watt, 7/21, p.121

Lincoln Arc Welding Foundation, James F.:
Mechanical design award program, 10/20, p.122

Livingstone, R. S.:
Management-employee relations (20 Questions: A case study in Human Engineering), 9/1, p.55

Lubrication:
Automatic booster gun, IE, 9/22, p.206
Book, spectrographic analysis of diesel lubricating oil, 11/24, p.126
Buttonhead grease fitting, IE, 8/11, p.129
Calibrate to grease gun, benefits, ENG, 11/24, p.97
Carbon dioxide coolant, 11/17, p.118
Cold oil fogging, 11/10, p.129
Coolant for honing, IE, 7/7, p.153
Coolant pumps, gear-type, IE, 9/29, p.118
Coolant system, self-contained, IE, 12/15, p.170
Cutting agent, X-30, odorless, nontoxic, 7/7, p.126
Cutting fluid concentrated, Wax-Cut, IE, 11/10, p.172
Cutting oils new, 11/17, p.117
Die casting lubricant, IE, 10/6, p.134
Dual-purpose oil for engines, IE, 9/8, p.150
Electric motors mean fewer relubrication intervals, ENG, 9/1, p.81
Fatty oil, waxes, Texas Co. survey, 9/1, p.104
Glass lubricant (Ugine-Sejournet) for extrusion at Hydropress, ENG, 9/15, p.91
Glass lubricant, a Pa. company, 11/10, p.62
Glass lubricant for dies, ENG, 12/8, p.93
Gravity feed oilers, IE, 12/1, p.148
Indium added, 12/8, p.99
Lubricants must survive rough treatment, 10/13, p.228
Metals machinability, cutting fluids, 8/18, p.101
Navy, stainless for lubrication fittings, 7/28, p.84
Navy, use in bearing corrosion study, 7/28, p.84
Oil-mist lubricators, IE, 10/13, p.328
Oiler reduces oil vapor, IE, 7/14, p.151
Standards for lubricating, coolant pumps, 10/13, p.294
Synthetic ups packing life, 12/1, p.113
Water-based lube used in rolling mill, 11/24, p.112
Wax-type cutting oil thinnest test, pic., 8/4, p.108

M

Machine Tool Industry
Army shortage: Not over but specialized, 7/21, p.61
Better tooling gives interchangeability, 11/10, p.98
Chevrolet automatic machines, 12/15, p.110
Conveyors boost machine tool production at Brown & Sharpe, 11/3, p.94
Crush grinding produces surface broaches, 9/1, p.101
Decontrols asked, 11/17, p.62
Flame hardening lathe bed ways, 12/29, p.86
Foreign machine tools: Answer to a present need — or threat to security, 11/17, p.62
French tool to Chevrolet, 7/7, p.71
Friction sawing, 10/20, p.92
Government wants $250 million capital investment, 7/28, p.30
Imports hit a peak, 10/20, p.71
Index, 1945-47, 7/28, p.30
Index drop, 12/22, p.36
Italian output, 7/7, p.73
Lathe specs approved, 8/4, p.95
London exhibit tools, 10/13, p.304
Machine builder solves a problem (National Acme), 11/10, p.108
Machine tool committee may be formed, 7/14, p.62
Manufacturing shift (jet engine air frames) slashes production time, 12/22, p.64
NPA leases tools, 9/29, p.52
Paper presented effect of rake on milling, 8/25, p.92
Reserves on move, ENG, 11/17, p.85
Shipments '52 vs. pre-Korea, 12/22, p.37 and ENG p.63
Special machine improves stainless roll finish, 12/22, p.66
Surplus storage program, 12/8, p.72
Tool builders need still more business (problems ahead), 9/22, p.93
Unrated orders for emergency, 7/28, p.30
See, Tooling.

Machine Tools & Attachments:
Abrasive blade cutter, IE, 12/1, p.151
Air drill line, IE, 7/7, p.144
Air drill, hydraulic monitor, IE, 7/21, p.144
Automatic attachments: Drill makes chips fly, 12/1, p.80
Automatic boring unit, IE, 10/20, p.131
Automatic boring mill, IE, 12/8, p.147
Automatic centering reels, IE, 9/22, p.197
Automatic chuck finishes pipe, IE, 12/22, p.89
Automatic flash lathe, IE, 10/27, p.103
Automatic machines: Chevrolet (Mass production: But with an eye on versatility), 12/15, p.110
Band saw walks through metal (friction sawing), 10/20, p.92
Band saw, IE, 8/18, p.136
Band saw, IE, 12/15, p.158
Bars, floating taper cutter, 8/4, p.102
Bench mill, IE, 8/25, p.125
Bench mill, IE, 12/1, p.148
Boring — three station, IE, 8/11, p.121
Broach, 700 strokes per hr, IE, 8/25, p.132
Broach cuts blind slots, 9/8, p.108
Broacher takes drives to 200.3p, IE, 11/24, p.142
Broacher, pull down, IE, 10/27, p.114
Burr-Master chamfers zerol gears, IE, 8/25, p.125
Carbides (see Tools, Cutting)
Car wheel lathe, pic., 11/3, p.122
Center finder, battery-operated, IE, 8/4, p.163
Centerless belt on grinder, 12/8, p.102
Centerless grinder, IE, 8/11, p.121
Centerless grinder shipped from Rumania to Italy investigated by Harriman, 7/14, p.62
Chaser grinding fixture, IE, 10/27, p.103
Chaser sharpening machine, IE, 9/8, p.146
Combined billet breaker shear, IE, 10/13, p.340
Combination forming-welding machine for appliances, 11/24, p.104
Concentric grinder, IE, 11/24, p.147
Contouring lathe attachment, IE, 10/27, p.103
Conveyorized grinder, IE, 12/15, p.157
Copying lathe-Heid (Austria), 7/14, p.110
Cup grinding wheel, IE, 8/4, p.163
Cutoff machine, continuous, IE, 8/18, p.144
Cutoff machine removes gate riser, IE, 10/27, p.116
Die caster holds pressure, IE, 9/15, p.155
Die filer with stop pins, IE, 7/14, p.135
Die head, self-opening, IE, 8/4, p.143
Boring machine turns out completed gear casings, 10/6, p.100
Drawbench, 100,000-lb capacity, 10/6, p.91
Drill grinder, IE, 9/15, p.166
Drill handles boring plus precision alignment, IE, 9/22, p.200
Drill hits 500 parts per hour, 10/13, p.297
Drill, hydraulic, IE, 12/15, p.157
Drill press, general purpose, IE, 7/7, p.137
Driller, deep hole, IE, 7/14, p.141
Driller for guided missile output, 9/8, p.114
Driller, heavy duty, IE, 7/7, p.137
Driller, small hole, IE, 7/21, p.140
Drilling-tapping machine, IE, 9/8, p.148
Drilling unit, IE, 10/20, p.140
Drilling deburring, IE, 12/8, p.148
Electric hammer drill, IE, 12/15, p.168
Electric drill attach., IE, 9/1, p.120
Engine lathe, heavy, IE, 12/1, p.144
Extension chuck, IE, 8/11, p.130
Extractor works in blind holes, 7/21, p.130
Face milling cutter, IE, 12/22, p.90
Feeder, air powered, IE, 9/1, p.120
Feeder-drill press, IE, 8/4, p.152
Feeder, small parts, 11/10, p.126
Flame cutter, portable, IE, 8/4, p.144
Ford tool at engine plant long as football fields, 9/1, p.81
Frauenthal grinders for tank bearings, 11/10, p.106
Gagemaker lathe gets variable electronic drive, IE, 8/11, p.128
Gear grinder, IE, 9/1, p.111
Gear rolling fixture, IE, 8/18, p.135
Gear shapers redesign, IE, 7/14, p.135
Gears, spur mitre powder metal pieces, 7/28, p.82
German milling machine, 10/13, p.306
Gildemeister lathe new method, 10/6, p.86
Grinder, flat surface, IE, 12/15, p.170
Grinder for large diameter workpieces, IE, 11/3, p.152
Grinder handles knives, saws, drills, IE, 12/1, p.138
Grinder, semiautomatic, IE, 10/13, p.328
Grinder works small radius, IE, 7/7, p.144
Grinding, brush finishing done on one machine, 7/7, p.94
Grinding fixture, IE, 10/20, p.145
Grinding machine shapes both sides of jet bucket Christmas tree, 7/21, p.88
Grinding wheel 1/16-inch, 9/15, p.117
Head and tailstock positioner, IE, 10/27, p.119
Head cutter for drums, cans, IE, 9/8, p.155
Hob and worm lead checker, IE, 11/10, p.183
Honing machine, bench model, IE, 8/11, p.121
Horizontal machine drills crankshafts, pic., 12/8, p.67
Horn router, IE, 8/25, p.125
Indexable lathe Futurblade, IE, 8/4, p.160
Isometric template, IE, 7/7, p.148
Knife grinder, 12-ton, IE, 10/6, p.121
Knife grinder, IE, 8/25, p.125
Lathe duplicator, IE, 11/24, p.141
Lathe duplicator accessory, IE, 11/17, p.156
Lathe machines jet cone ends in one setup, 10/20, p.100
Live centers, heavy duty, IE, 10/20, p.131
Lockheed's two-story driller for hole spotting, 8/18, p.102
Machine complete 37 operations, 9/22, p.186
Machine drills jet housings, 10/27, p.77
Machine for aircraft superchargers has safety feature, 7/21, p.172
Machine screw taps, IE, 9/22, p.213
Machine speeds output of shells, 10/13, p.278
Machine spots jacket leaks, 11/3, p.119
Machines cylinder blocks, 7/14, p.117
Machines jet bearing, 7/7, p.132
Machines jet housings, 11/17, p.123
Machines steel breech rings, IE, 11/24, p.136
Machines tank housings, 9/8, p.104
Magnetic chucks, IE, 7/21, p.146
Magnetic sine chuck, IE, 12/8, p.147
Metal cutter versatile, IE, 9/8, p.139
Miller operates to numbers punched on tape, ENG, 9/1, p.71
Milling machines, Swedish, 7/21, p.130
Molder, jolt squeeze pin-lift, IE, 9/22, p.203
Molding machine, IE, 8/18, p.135
Mortising attachment, IE, 8/18, p.136
Optical dividing head machines jet engine components, 10/13, p.309
Pedestal mount for miller, IE, 8/4, p.118
Pendant miller control, IE, 11/10, p.169
Pipe, bolt threader, IE, 10/6, p.124
Pipe threader, portable, IE, 10/20, p.136
Planer, double-column, 11/17, p.138
Power drill-versatile, IE, 12/15, p.172
Power hack saw, IE, 12/22, p.89
Precision gang tools speed roll grooving, 9/15, p.106
Precision rotary table, IE, 12/1, p.144
Precision thread grinder, IE, 8/4, p.154
Precision thread grinder, IE, 12/8, p.157
Presses (See)
Production duplicating, IE, 8/18, p.138
Profile diamond dressers, IE, 12/15, p.158
Profiler for large castings, IE, 11/3, p.151
Radial, boring mill workholder, IE, 9/1, p.111
Reversible wheel adaptor, IE, 8/11, p.130
Router remote controlled, 12/15, p.126
Rubber punch cuts scrap, 8/25, p.112
Shaper-traverse crank: 18-36-in stroke, IE, 11/24, p.133
Shear for plate, pivoted blade, IE, 12/1, p.138
Shear-turnover joins cropping inspection, pic., 7/21, p.90
Sheet metal saw, IE, 12/1, p.142
Sheet saw, long-railed, IE, 12/8, p.147
Side milling cutter, IE, 9/15, p.168
Stub drill chuck for multiple spindle heads, IE, 11/24, p.135
Surface finisher for name plates, etc., IE, 9/22, p.197
Surface grinder dividing head, IE, 11/24, p.133
Surface grinder faces web sheets to thickness tolerance, 11/17, p.110
Surface grinder, multiple head, IE, 10/13, p.333
Swiss jig boring machine, 11/24, p.70
Tapping chuck, IE, 8/4, p.158
Tapping chuck, IE, 9/8, p.152
Thread rolling attach., IE, 10/20, p.134
Tool and cutter grinder: Table swing, IE, 12/8, p.157
Tool bit installation simplified by slotted sleeve, IE, 9/29, p.131
Torch guiding, IE, 9/8, p.140
Torque tool range larger, IE, 10/6, p.127
Transfer cleans hydraulic oils, IE, 7/28, p.107
Transfer crankshaft drill, 9/15, p.120
Transfer finishes bearing caps, 11/17, p.135
Transfer-handling machine, 9/15, p.120
Transfer indexable features of a carbide insert for seamless steel tubing, 8/4, p.122
Transfer-Matic, Cross Co. to Ford, 9/1, p.68
Transfer-matic for idler arms, 11/3, p.102
Transfer-matic handles axle housing, 11/10, p.133
Transfer-matic processes auto cylinder blocks, 11/3, p.127
Trepanning head has triple-edged cutter mounted, 10/13, p.312
Tube bender, IE, 9/29, p.115
Tube straightener, high-speed, 11/10, p.136
Twin barrel finisher, IE, 12/22, p.92
Universal chuck, three-jaw, IE, 9/22, p.208
Universal grinding dog, IE, 10/6, p.137
Universal joint drilling head, IE, 10/27, p.112
Vertical contouring, IE, 11/17, p.160
Vertical grinder, IE, 10/20, p.134
Vertical grinders, IE, 7/21, p.148
Vise-variable grip, IE, 11/24, p.136
Wheel boring in railroad shops solved by new tool, 8/4, p.125
Wire cutter, IE, 10/20, p.137

Machinery:
Construction, cranes-shovel output, 11/3, p.56
Farm machinery (see)
Gearmakers told how to lower unit costs, 11/3, p.68
Plastic machinery needed, 9/8, p.59

Machinery & Allied Products Institute:
Replacement costs thin industry profits, 12/8, p.67

Machines:
Airless blaster cleans meter parts, 12/1, p.113
Air blaster (gear making) both cleaning and peening performed, 7/21, p.115
Airless rotoblast barrels, IE, 7/21, p.135
Automatic nailer, 10/13, p.280
Balancer checks pistons, 9/15, p.123
Balancer checks propeller shafts, 9/29, p.100
Balancer, dynamic, IE, 10/20, p.131
Balancing propeller shafts: (Fast shaft balancing), 9/29, p.100
Barrel finisher, IE, 8/25, p.133
Belt sander, IE, 12/22, p.90
Billet descaling cabinet, IE, 10/13, p.328
Billet markers, IE, 10/20, p. 136
Buttwelding, IE, 10/20, p.142
Chilling machine tests parts at -80° F, IE, 9/8, p.142
Crushes welding flux, IE, 7/21, p.140
Drum sander, IE, 9/29, p.118
Electric staking machine, IE, 11/3, p.158
Gildemeister, 10/6, p.86
Girth welder, IE, 11/17, p.169
Lapping machine, IE, 10/13, p.327
Marking steel, machines built by, 10/20, p.68
Mask washer, IE, 8/25, p.128
Metal stitching reduces sieve assembly time, 8/18, p.102
Molten metal discharge unit, IE, 10/13, p.338
Purifier, pipe line, IE, 8/11, p.126
Riveters (see Fasteners, Fastening)
Sand blaster refills easily, IE, 10/6, p.121
Separator, mechanical-magnetic, IE, 8/25, p.132
Sheet notcher, IE, 12/8, p.147
Shell molding machine, 12/22, p.77
Slip roll, hand-operated, IE, 10/6, p.121
Slitter, IE, 8/11, p.119
Slitter handles coil, pic., 12/8, p.190
Slitter, pic., 12/8, p.190
Slitter, IE, 12/15, p.161
Spot-welding, soldering tool, IE, 8/25, p.126
Spring coiling, IE, 9/8, p.139
Steam cleaner discharges 540 gal detergents, IE, 11/3, p.151
Stretcher improves stainless, 7/28, p.79
Sump tank cleaner, IE, 10/27, p.116

Surface resistance analyzer, 9/15, p.159
Tube finishing machine, 10/13, p.289
Tensile tester, IE, 7/28, p.110
Tester for abrasive shot and grit, IE, 8/11, p.119
Tester for aircraft landing gear, 10/6, p.97
Tests gas leaks in exhaust manifold, IE, 11/17, p.160
Tests leaks in water jacket areas in engine cylinder heads, 11/3, p.119
Track-type pullout, IE, 12/22, p.90
Unit for air placement of cement materials, IE, 7/7, p.138
Universal tester, IE, 10/13, p.334
Vacuum coating equipment, IE, 7/28, p.107
Washing machine, IE, 10/6, p.127
Welder for small shops, IE, 10/20, p131
Welding analyzer, IE, 9/15, p.156
Wet blaster finishes tools, IE, 8/4, p.143
Wet blaster, for dies, 11/17, p.126
Whirl Agitor units, IE, 9/15, p.155
Wire-coiling machine, IE, 7/7, p.138
Zinc die caster, IE, 12/1, p.147

Machining:
Aircraft engine components machined in complex setups, 9/15, p.97
Appliances, combination forming-welding machine lowers costs, 11/24, p.104
Automatic machines (see Machine Tools)
Band saw walks through metal, 10/20, p.92
Bar setup cuts taper time, 8/4, p.102
Carbide clamped tools used for gun tube production, 9/8, p.99
Carbide drill heads, triple-edge off-center, machine holes through oil well drill collars, 11/3, p.105
Carbide inserts reduce turning time of cast iron drier rolls, 7/28, p.84
Coated abrasives for tapered aircraft skins, 8/25, p.98
Coated abrasives grind down costs (special report), 8/25, p.92
Fast propeller shaft balancing: Truing almost on the nose, 9/29, p.100
Forged ells and tees, both ends machined in same operation, 10/6, p.86
Gaging (see)
Gildemeister machine, new method, 10/6, p.86
Grinding-brushing, one machine principle, 7/7, p.94
Grinding shapes both sides of jet bucket Christmas tree, 7/21, p.88
Gun tubes turned faster, 9/8, p.99
Jet engine aft frames . . . : Manufacturing shift slashes production time, 12/22, p.64
Jet engine components machined with optical dividing head, 10/13, p.309
Jet engine rings centrifugally cast: How to rough machine them, 10/6, p.78
Machinability (metals) theory pays off, 8/18, p.98
Machine builder (Nat'l Acme) solves a problem for makers of valve bodies, 11/10, p.108
Precision gang tools speed roll grooving (machining time down 50%), 9/15, p.106
Router is remote controlled, 12/15, p.126
Spark machining: Meets superalloy challenge, 7/7, p.92
Special machine improves stainless roll finish, 12/22, p.66
Rammed shell cases . . . from seamless tubing, Army Chemical Corps, 7/14, p.90
Turbine wheel chucks machined, IE, 12/29, p.97
Ultrasonic machining, *Technical Report Newsletter*, 7/7, p.95
Zinc die castings machined (mass production) Chevrolet, 12/15, p.110

Magnesium:
Hot forming at 600°, ENG, 7/14, p.83
Magnesium alloyed with rare earths and zirconium used in castings at high temperatures, ENG, 11/24, p.97
Producers hunt markets, 11/17, p.60
Rolling equip., pic., 7/14, p.128

Magnesium Assn.:
Elects officer, B, 12/8, p.190

Magnets:
Demagnetizer, IE, 10/13, p.338
Electro micromagnet tests aircraft exhaust headers, 12/1, p.113
GE trial kit, 11/10, p.156
Lifting magnet, IE, 12/22, p.89
Magnet aids testing, IE, 9/15, p.159
Magnetic tagline, IE, 10/13, p.339
Navy's permanent magnetic material, 7/28, p.76

Maintenance:
Casting defects, repair kit, IE, 9/1, p.127
Drive maintenance outlined, SDPA, 7/21, p.118
Furnace maintenance shift, 7/28, p.92
Maintenance boom at Caterpillar for overhead reaching, 7/14, p.114
Plant maintenance conference scheduled, 12/8, p.132
Plant maintenance, ODM study, 12/8, p.58
Ratchet repair kits, IE, 8/4, p.163
Rotary brush sweeper motorized, IE, 11/3, p.162
Spare parts scorecard control system, 7/28, p.88

Management:
Bonus payments, Christmas, 12/15, p.77
Booklet, requirements of good management, 11/17, p.148
Clerical cost control gets human relations formula, 9/15, p.131
Clinic, missing tools, 10/20, p.73
Election issues, management should act, 8/4, p.68
Executive training program, 12/8, p.138
Manufacturing cost control, 10/27, p.53
Motion study; electronics used, 12/15, p.119
Personnel control program, U. S. Steel, 9/22, p.188
Top management problems listed, 9/8, p.61
Thompson Products, management-employee relations, 9/1, p.55
See Small Business
See Training

Manganese:
Armour probes extracting processes, 9/29, p.54
Cuyuna Range deposits, 12/29, p.48
Electrolytic manganese substitute, 7/21, p.112
Recovery plant, Tex., 11/17, p.50
Recovery studied, 9/8, p.65
Supply sources, 10/13, p.130
Tenn-Tex opens plant, 12/8, p.67
U. S. self-sufficiency possible, 7/28, p.54

Manufacturers Industrial Supply Corp.:
Organized, B, 12/8, p.185

Manufacturing Chemists' Assn. Inc.:
Acid handling, 11/10, p.139
Chemical handling, 7/7, p.132
Sodium, properties handling, 7/14, p.125

Marking, Stamping:
Alloy bar marking machine new, companies producing, 10/20, p.68
Alloy shipments color coded, 7/21, p.104
Alloy marking, problems to be solved, 8/25, p.66
Billet markers, IE, 10/20, p.136
Metal nameplates, Numbergraphs, IE, 11/3, p.158

Massachusetts Institute of Technology:
Miller operates to numbers punched on tape, ENG, 9/1, p.81
Steel content studies for Navy, ENG, 9/29, p.75

Materials, Components:
Basic materials and alternates list, 7/21, p.63
Basic materials grouping, 9/8, p.58
Chrome carbide provides high corrosion resistance, 8/4, p.92
High-duty irons reduce costs Meehanite, 9/15, p.94
IMC (see Allocation)
Indium metal, 12/8, p.98
Kentanium cemented titanium carbide, 9/29, p.76
Test first then fabricate, 1/14, p.91
Timken graphitic type tool steel, 8/18, p.118
See Alloys

Materials Handling:
Coil handling cost-cutter, 12/15, p.129
Die elevator soothes storage headache, 12/15, p.124
Elevators boost vertical handling, 9/29, p.91
Equipment makers, sales report, 12/29, p.53
GM expert, multiple story bldg with ramps cheaper to operate, ENG, 11/10, p.97
Gantry in northern Mich. plant, 11/3, p.115
Giant stator handling, 8/25, p.102
Handling costs cut in parts assembly, 9/1, p.85
Lift trucks knit nonintegrated plant, 8/25, p.105
London Handling Show, 7/21, p.90
Mechanization, Continental Gin plant, 10/13, p.252
Mechanization, Westinghouse conference, 11/10, p.102
Minimum aisle width . . . Get the most out of the least plant handling space, 11/10, p.101
New plant layout (Monarch) streamlines production, 10/27, p.75
Survey (book) materials handling, 11/10, p.139
Truck driver wins award, pic., B, 7/28, p.142
Westinghouse conference scheduled, 9/29, p.102; held, 11/3, p.55

Materials Handling Equipment:

Conveyors:
Buschman conveyor, transmission assembly, pic., 9/15, p.128
Cleated belt conveyor, IE, 7/14, p.135
Coal unloader, 9/22, p.190
Collector system ups mill scale recovery, 10/20, p.102
Conveyor network, moves press scrap, 12/8, p.100
Conveyor pulleys, IE, 7/21, p.146
Conveyors boost machine tool production, 11/3, p.94
Dumbwaiter between floors, IE, 9/22, p.200
Incline belt, IE, 8/11, p.129
Incline cleated belts move auto parts, 8/11, p.87
Induction furnace oscillating conveyor, 7/7, p.100
Ore belt at exhibit, 9/8, p.108
Portable roller, IE, 10/13, p.338
Roller curve has chain drive, IE, 9/1, p.114
Scrap conveyor, 12/8, p.100
Silo handling, chrome ore, 7/28, p.92
Stacker, portable, IE, 9/15, p.156
Stampings moved, IE, 12/1, p.131
Static-free belt, IE, 8/18, p.146
V-conveyor centers material, IE, 9/29, p.115
Weighing system, 12/8, p.112

Cranes, Hoists:
Crane has hydraulic boom, IE, 7/7, p.137
Dravo cranes for Navy, pic., 9/22, p.242
English crane with radio, TV, ENG, 7/28, p.75
Fairless coal unloader, 11/17, p.129
Hydraulic hoist redesign, IE, 12/29, p.95
Lifters (four post) for warehouse, IE, 7/21, p.136
Lift handles rolls, IE, 8/4, p.150
Lockheed cargo-lift, 11/3, p.135
Mobile crane-trailer hookup, IE, 9/1, p.114
Power crane output soars, 10/13, p.272
Powrlift, 1000-lb capacity, IE, 7/28, p.107
Pushbutton control on chain hoist, IE, 8/4, p.150
Scrap yard crane shipped, pic., 9/8, p.182
Steel jaws lift steel tires, pic., 10/20, p.172
Wire rope life increased on hot metal cranes, 9/29, p.104

Miscellaneous Equipment:
Acid carboy dumper, IE, 12/22, p.90
Aluminum box, Alcoa, 10/13, p.249
Basket handling, pic., 10/13, p.264
Cart handles sheets, bars, IE, 8/4, p.155
Drop-bottom boxes speed handling, 12/1, p.110
Drop-bottom containers, IE, 7/14, p.136
Dump truck bodies, heavy duty, 7/14, p.90
Erect-A-Pallet, three sections, IE, 8/4, p.154
Grapple line, IE, 11/10, p.170
Jacks: Enough for defense, 10/13, p.312
Magnesium barrel skid, IE, 12/22, p.90
Magnesium dock board, IE, 11/3, p.167
Portable stacking racks, IE, 9/22, p.208
Tiering pallet kit, IE, 7/21, p.116
Portable handling cart, IE, 9/22, p.206
Ramp for unloading freight cars, 11/10, p.100
Rotating storage unit-small spare parts, IE, 12/1, p.134

Trucks, attachments for:
Attachment slips over fork, 8/25, p.100
Backrest extension, IE, 7/21, p.143
Base forks adjustable for tiering, IE, 10/13, p.328
Bulldozer (all welded) for crawler tractor, 9/8, p.96
Carton clamp handles without pallets, IE, 7/7, p.143
Caster for trailer-truck, IE, 9/29, p.134
Clamping attachment, IE, 11/3, p.167
Clamp handles rolls, IE, 7/28, p.110
Crane arm attachment, IE, 7/14, p.138
Double-deck platform for maintenance, 9/8, p.130
Extension handles long loads, IE, 9/8, p.146
Fork scoop attach., IE, 7/28, p.111
Hydraulic end loader, IE, 12/8, p.152
Lift truck scale, IE, 10/6, p.137
Knee-action caster, IE, 9/22, p.210
Leveling device, IE, 8/18, p.135
Lift carriage rotates load, IE, 9/1, p.122
Lift has swivel casters, IE, 9/8, p.148
Lift reach gains from shorter legs, 9/22, p.179
Maintenance boom for overhead reaching, 7/14, p.114
Midget crawler has front-end bucket, 9/8, p.130
Pallet stacks drums, pic., 7/7, p.108
Pallet, tubular steel runners, IE, 12/1, p.136
Radio, remote control handling, 7/14, p.122
Roll clamp attachment, IE, 9/1, p.111
Screw adjusting forks, IE, 12/8, p.149
Snow plow, 12/8, p.128
Snow plow, IE, 12/22, p.94
Steering pusher axle for tractor, 10/13, p.290
Tilting top for maintenance, IE, 8/4, p.154
Truck handles double pallets, IE, 8/11, p.121
Truck uprights, IE, 9/22, p.203
Unloader attachment, IE, 9/29, p.115

Trucks, Gas & Electric:
Baker-Raulang truck at Westinghouse raises drum storage, pic., 7/7, p.108
Battery-powered, IE, 10/13, p.252
Crawler fork-lift, indoor-outdoor, IE, 8/18, p.144
Diesel fork lift, IE, 9/15, p.105
Diesel, IE, 12/15, p.167
Diesel or gas, IE, 7/21, p.144
Diesel or gas, IE, 9/15, p.147
Drumobile, IE, 9/22, p.200
Electric pallet, 3-point suspen-

Code: B Briefs; ENG Engineering and Production News; IE Industrial Equipment

sion, IE, 10/29, p.131
Fork truck, short-turning, IE, 12/22, p.89
Fork truck, U-turns, IE, 10/27, p.104
Fork truck, nontelescopic, IE, 10/27, p.107
Fork truck stacking heights overlooks physical laws governing stability, 10/13, p.318
Fork truck, rider-walker, IE, 12/8, p.154
Fork truck, stand-up, IE, 11/17, p.156
Fork truck tiers in 5-6 ft. aisles, IE, 12/22, p.92
Fork truck, twin-tilt cylinders, IE, 10/20, p.137
Furnace charger, IE, 11/10, p.178
High-lift, IE, 10/13, p.343
High-tiering for outside jobs, IE, 12/29, p.98
Iron ore handling: heavier trucks tested, ENG, 11/3, p.91
Lift trucks knit nonintegrated plant, 8/25, p.105
Lift truck power increased, IE, 8/25, p.134
Load carrier, extra heavy-duty, IE, 8/25, p.130
Magnesium trailer houses radar control for aiming anti-aircraft, 11/10, p.129
Platform moves load and operator, IE, 11/10, p.172
Power drive wheel articulation, IE, 7/14, p.135
Side discharge truck lifts stacks, IE, 10/13, p.334
Sit-down type fork lift, IE, 9/1, p.117
Stacker, IE, 12/29, p.97
Transtacker, IE, 8/11, p.124
Transtacker, 12/1, p.110
Truck carries long objects, IE, 9/8, p.143
Truck cushions loads, IE, 9/15, p.162
Truck magnetic controls, IE, 8/4, p.156
Truck reversible shelf, IE, 8/4, p.155

Trucks (Hand)

Dump truck, IE, 7/7, p.148
Hand truck with stair climber, IE, 7/14, p.148
Platform hand truck, IE, 9/8, p.140

Materials Handling Institute:

College-Industry Committee, 12/29, p.53
Meeting at Mackinac, 7/7, p.65
Palmer heads group, 12/29, p.53

Mellon Institute:

Grinding data, 11/24, p.121

Metal Cutting Tool Institute:

Booklet, tap and die sizes, 10/13, p.282

Metal Show:

See American Society for Metals

Metallurgy:

Advances in metallurgy, ASM sessions, 10/27, p.78
Automotive research, 10/13, p.166
GE metallurgist sees progress in coatings, fabricating, 12/15, p.112
High temperature metallurgy: Jetomic age demands it, 11/3, p.98
Iron properties (see Irons)
Metals in the jetomic age, 10/13, p.148
Tech team from Yugoslavia, 11/10, p.76

Metals:

Brazing materials, 9/15, p.102
Chrome carbide provides high corrosion resistance, 8/8, p.93
Clad metals (see)
Conservation (see)
Critical metals savings grow, ENG, 11/3, p.91
Indium metal: can you use it? 12/8, p.98
Kentanium, 9/29, p.76
Rare earths: new markets, 9/15, p.144
Substitution, construction machine makers, 8/25, p.118
Watch jewels may be omitted in use of alloy metal, 8/4, p.114
See Adhesives
See Machining
See Corrosion
See Forming, Bending

Metalworking:

Automotive research, 10/13, p.166
Band saw walks through metal, 10/20, p.92
Coated abrasives for metal finishing, 8/25, p.92
Electric brains expand steel's muscles, 11/3, p.106; 11/10, p.112
Gas boon to metalworking, 11/3, p.74
Light rays detect flaws, ENG, 9/8, p.85
Low temperature data, 7/28, p.100
Machineability theory pays off, 8/18, p.98
Metal spinning: Ancient art with a modern twist, 8/11, p.59
Metals in the jetomic age, 10/13, p.148
Metalworking slated for bigger role in New England, 9/29, p.49
Moly refinements seen, 12/15, p.112
New alloy tough in the hot spots, 11/17, p.90
Path to enameling shop rough on base metals, 11/10, p.104
Sales-profit charts, 11/24, p.72; 10/13, p.119
Springback problem in metal forming, 8/4, p.90

Mexico:

German "low blast furnace" process studied, 9/15, p.73

Midwest Research Institute:

Kimball addresses group, 12/15, p.135
Symposium scheduled, 12/15, p.126
Military Program (see Defense)

Mines:

Bauxite mine, B, 12/22, p.126
Directory charts Mesabi mines, 8/18, p.122
Lamp rack speeds distribution, 7/28, p.94
Mine hoist, pic., 7/21, p.65
Sand waste makes mine floor, 8/11, p.92
U. S. signs cobalt agreement, 8/18, p.70

Mining:

Mining machinery steel sought, 10/20, p.65
Trend for alloy hollow drill steel, 10/13, p.300
Uranium ores, pic., 12/15, p.112

Mobilization:

See Defense

Motion Pictures:

Alco story, 8/25, p.99
Diesel repair, Westinghouse, 8/18, p.107
Industry movies, report, 7/14, p.59
Movies without light, new film, 9/22, p.174

Motion Study:

Electronics aid, 12/15, p.119

Motors, Generators:

Army orders rail power plant, 11/10, p.152
Double reduction geared motors, IE, 9/22, p.197
Drive-control cylinder, IE, 11/10, p.178
Fan cooled, high slip induction motor, IE, 12/8, p.147
Gearmotor, single-reduction, IE, 12/1, p.131
Generator rotor, pic., 9/29, p.166
Generating unit at Consumers Steel stabilizes power output, 9/8, p.94
Generator for oil refinery, pic., 12/15, p.80
Generator (Westinghouse to Philadelphia Electric), 9/8, p.85
Generators (Westinghouse to TVA Gallatin plant), 9/29, p.102
Giant stator handling, GE, 8/25, p.102
Home use number, ENG, 12/1, p.75
Industrial motor controls: Total shipments in millions of dollars (chart), 9/29, p.51
Kuwait shipped units, 8/25, p.118
Motor generator line, IE, 12/15, p.168
Motor uses 110 or 220 volts, IE, 8/4, p.143
Motor volt selector, IE, 7/14, p.146
Motor volt selector, IE, 8/4, p.158
Motor, Rota-Volt selector, IE, 8/4, p.158
Rotary actuator, lightweight, IE, 7/7, p.144
Sump pump motor, IE, 8/25, p.136
TVA Hiwassee dam turbine award, 11/24, p.125
Totally-enclosed motor, IE, 12/22, p.92
Vacuum cleaner, electronic motor shutoff, IE, 10/27, p.110
Variable pitch motor pulley, IE, 7/21, p.135
Variable speed motor, IE, 10/13, p.340 and 327
Variable speed pulley, IE, 9/29, p.134
Vertical motor line, IE, 7/28, p.108
Waterwheel generator shipped, 9/8, p.132
Worm gear, low speed, IE, 9/8, p.139
Worm-gear speed reducer, hp doubled, IE, 11/17, p.153

N

National Assn. of Aluminum Distributors:

Officers elected, B, 11/24, p.173

National Association of Corrosion Engineers:

Southern session plant, 7/21, p.130
Topics for symposia, 8/4, p.120

National Association of Independent Business Inc.:

Annual household purchasing power (1929-52), 12/22, p.27

National Association of Manufacturers:

Basic research, survey, 8/4, p.96

National Association of Metal Finishers Inc.:

Job platers' sales, '51, 11/24, p.71

National Association of Steel Exporters:

Officers elected, B, 12/1, p.178

National Bureau of Standards:

Ceramics prevent carbon absorption by stainless used in aircraft exhaust systems, 8/18, p.116
Chromium-frit coatings for moly aid jet life, 8/11, p.97
Clutch for instrument use, ENG, 12/8, p.93
Copper in alloy determined, photometric, one-step procedure, 7/14, p.117
Core box system, ENG, 10/13, p.147
Electric circular, 9/8, p.125
Graphites-domestic, 11/10, p.148
Limit load gage, 9/15, p.141
Ordnance div. reorganized, B, 7/7, p.180
Rectifier, titanium oxide layer, 7/14, p.94
Sub-zero strain aging affects ingot iron properties, 9/1, p.86
Temperature standardization: Big gain in research, 8/11, p.90

National Electric Products Corp.:

Catalog issued, B, 10/20, p.172

National Electrical Contractors Assn.:

Aluminum cable use clarified, 9/22, p.185

National Electrical Manufacturers Assn.:

Aluminum conductors study, 12/8, p.126
Meeting, farm uses, 11/17, p.50
Motor standards rev., 11/24, p.71
Officers elected, B, 12/1, p.177

National Equipment Manufacturers' Depots:

Distribution plan, B, 9/1, p.154

National Instrument Conference:

Meeting report, 9/15, p.67

National Machine Tool Builders' Assn.:

Meeting, officers, 11/17, p.62
Shipments ('51 v. pre-Korea), 12/22, p.37; ENG, 12/22, p.63

National Metal Congress & Exposition:

American Society for Metals:
  Program, 10/13, p.179
  Reported: Advances in metallurgy, 10/27, p.78
American Welding Society program, 10/13, p.182
Editors poll metalworking men, 10/27, p.43
Exhibitors listed, 10/13, p.214
Exhibits:
  Automatic shell coating, 10/13, p.261
  Brass casting, 10/13, p.304
  Seen and heard at Show, 10/27, p.43
  Titanium tubing, 9/15, p.141
  Welding equip., 9/15, p.128

National Planning Assn.:

Blueprint for America's economic future, 12/29, p.45
Presidential office reorganizing, 12/15, p.82

National Production Authority:

Appointments, 9/29, p.53
Basic materials grouping, 9/8, p.58
Budget shortage, 9/29, p.39
Chapple, Pattison, 10/13, p.125
Clinic meeting, diamond grinding, 12/1, p.101
Fowler to succeed Steelman, 9/8, p.50
Fowler views steel inventories, 9/8, p.66
Machine tool leases, 9/29, p.52
Machine tools, unrated orders for emergency, 7/28, p.50
McCafferty appointed, 7/7, p.67
McCoy, acting dir., 12/22, p.41
McCoy, deputy adm., 9/29, p.54
McDonald succeeds Fowler, pic., 9/22, p.87
Pattison replaces Howe, 10/20, p.67
Melters must order quarterly, 9/8, p.59
Staff cuts, 7/21, p.52
Steel finishing capacity survey, 10/20, p.68
Steel production recoups, losses estimated, 8/18, p.66
Substitutes for rutile wanted, 10/13, p.393
Timberlake, dir. Iron & Steel Div., pic., 9/22, p.87
Violators watched, 7/7, p.53

National Safety Council:

Accidents in '51, 7/28, p.82
Meeting scheduled, 8/25, p.97
Small plant safety: Neglected, 11/17, p.68

National Tool & Die Manufacturers Assn.:

Backlogs rise, 7/7, p.66

National Transportation & Maintenance:

Meeting, aluminum for trucks, 11/17, p.141

Navy:

Buffing, polishing compound, 7/21, p.109
Condenser design for vessels saves metals, ENG, 8/4, p.89
Catapult contract, 9/29, p.40
Catapult for aircraft carriers, suppliers, ENG, 9/22, p.109
Conservation program, pounds-dollar savings, ENG, 9/8, p.85
Conservation ways sought, 9/15, p.68
Designations of steel spec, ENG, 9/15, p.91
Flying stovepipe type pulse-jet engine, ENG, 8/18, p.93
Magnetic material developed, 7/28, p.76
Packard diesel order, 9/1, p.90
Pickling plant new, B, 9/1, p.151
Research (see)
Ship, radiographic inspection, 11/10, p.103
Work measuring, 12/1, p.119

Nickel:

Hanna Oregon facilities, 12/22, p.28
Nicaro plant restored, 9/22, p.85
Nicaro plant expanded, 12/29, p.49

Noise:

IHF investigate, 12/15, p.135
Tape recorder for transformer noise, 8/14, p.107

Code: B Briefs; ENG *Engineering and Production News*; IE *Industrial Equipment*

Notre Dame University:
Lab scholarships, 8/4, p.96

Nylon:
Foundry core boxes, nylon eliminates sand abrasion, ENG, 8/4, p.89
Gears and impact use, ENG, 12/1, p.75
Insulating shells drawn from nylon, 8/18, p.116
Nylon powder for sintering, ENG, 7/28, p.75

O

Office Equipment:
Filing cabinet, drawer mileage, 10/13, p.286

Office of Price Stabilization:
Aluminum increase studied, 7/21, p.52
Arnall rumored to resign, 8/11, p.62
Controls extended, 7/7, p.62
Durable goods, formula, 8/4, p.66
Equipment makers protest Rev. 1, GOR, 9/1, p.58
Forging order proposed, 11/3, p.67
Freehill, acting adm., 12/22, p.41
Herlong amendment rev., 7/7, p.62
Holub, chief, Iron & Steel, 11/24, p.75
Housewife for local enforcement, CIO urges, 10/13, p.126
Line forms for price relief, 11/3, p.63
Price pass-through formula (see Prices)
Rent controls, 10/13, p.126
Staff cut, 7/21, p.52
Violations settled, 10/13, p.120
Woods adm., 9/1, p.45
Woods resigns, 12/1, p.39
Woods on tour, 10/20, p.54

Office of Salary Stabilization:
Violators hit, 8/11, p.62

Ohio Valley Credit Conference:
Mauthe addresses group, 11/3, p.64

Oil:
Additives control fuel oil ash deposit, 7/21, p.120
Cutting oils (see Lubricants)
Truck-mounted rig services wells in Venezuela, pic., 11/10, p.210
Wells drilled, bad start, 11/10, p.62

Open Hearths:
Capturing dust in gases, 8/4, p.105
Converts melt shop to all-electric, 8/25, p.110
Inland Steel adds, 10/6, p.49
Inland Steel, E. Chicago, 9/15, p.56
Republic completes expansion, 11/3, p.65
Youngstown Indiana Harbor Wks., 11/3, p.64
See Capacity

Oxygen:
Carriers have jet oxygen plant, 8/25, p.116

P

Packaging, Containers:
Can-lining enamels, 9/8, p.128
Grating protects compressor en route, pic., B, 7/28, p.144
Navy reconditions fuel drums, ENG, 11/10, p.97
Oxygen cylinders service charge, ENG, 11/24, p.97
Packaging systems need change, ENG, 8/25, p.91
Radioactive materials packaging, 11/3, p.124
Storage, assembly container, IE, 11/3, p.157
Trailer exhibits aluminum foil, 11/3, p.102
Tube packaging, Wolverine, B, 9/8, p.184
Wrap up savings in scientific packaging, 10/6, p.57

Pan American World Airways:
Header testing with micromagnet, 12/1, p.113

Parking Meters:
Industry reported, 10/13, p.130

Patents:
AEC patents release, 11/17, p.64
Clad-metal exchange, Knapp Mills, 11/10, p.72
Congress gives inventors rev. law, 8/11, p.62
I.T.&T. licenses Sarkes Tarzian, B, 12/22, p.124
NATO compensation to American inventors, 11/24, p.76
NATO compensation to U. S. manufacturers, 9/1, p.60
Phillips Lab. grants, 11/24, p.130
Plant layout model patented, 9/29, p.97

Pennsylvania Railroad:
Pier, Baltimore, B, 12/22, p.126

Pensions, Insurance:
K-F retirement benefits include medical, 7/7, p.76

Petroleum Administration for Defense:
Applications withheld, 8/25, p.67
Allots steels for pipeline, 9/22, p.82
Allots steel for oil, gas operators, 9/29, p.59
Aids foreign producers to ease U. S. shortage, 10/13, p.129
Small pipe requirements, 10/13, p.123
Tube shortage, Foree predicts, 12/15, p.76

Philipp, Dr. L. A.:
How an inventor and engineer operates, 11/10, p.79

Philippines:
Marcelo Steel Corp., 8/18, p.108
Steel ingot mill, 12/1, p.57

Photography:
Camera checks spot welding, ENG, 10/20, p.89
Camera-microsecond, 12/15, p.149
Film takes picture without light, 9/22, p.174
High speed photography: Steel research tool, 7/7, p.90
High-speed symposium, 10/20, p.122
Microfilmer files records, IE, 9/29, p.115
Microfilmer, ENG, 7/28, p.75
Olds' engine valve plotted by camera, 9/8, p.72
Photocopying, IE, 11/24, p.136
Photographs sell safety program, 8/18, p.96
Photomicrograph data book, 11/10, p.139
Plant layout pictures, method, 8/18, p.122
Reflex camera, German, ENG, 10/6, p.75
TV camera, 12/15, p.152
See Visual Aid

Pickling:
Heating pickle liquor by submerged combustion, 12/15, p.114
Hot vapor cuts pickle cost, 9/8, p.131
Ion exchange new hope for waste recovery, 10/20, p.96

Pig Iron:
Bethlehem ups output, 10/27, p.45
German process pig iron without coke, 8/4, p.71

Pipe, Tubing, Fittings:
Aluminum fittings, 7/14, p.104
Aquadag solution swabs inside tubing, 11/3, p.132
Boiler fittings, IE, 7/14, p.146
Centerless belt grinds extruded tube stock, 12/8, p.102
Coating extends pipe life, 7/7, p.98
Controls ease precision tube problems, 8/18, p.94
Couplings, reusable, IE, 8/25, p.136
Fiberglas for plastic pipe, 11/10, p.150
Flexible metal hose installation tip, 7/21, p.103
Flexible plastic tubing, IE, 9/8, p.150
Furnace, porcelain enamel pipe fusing, 8/11, p.97
Heat exchanger tee, IE, 9/29, p.131
Hose couplings, brass, IE, 9/15, p.167
Pipe and tube end notcher, IE, 11/10, p.175
Pipe coupling, threadless, IE, 8/4, p.158
Pipe pressure test, Spang-Chalfant, and built by Hydropress, 7/7, p.97
Pipe purifiers (see Machines)
Pipe threader, IE, 10/20, p.136
Plastic pipe-fittings on film strip unit, 11/24, p.129
Rammed shell cases from seamless tubing, 7/14, p.90
Seamless steel pipe crop length shown by x-ray gages, 7/28, p.80
Small pipe demand, 10/13, p.123
Spar tubes for rotor blades, helicopters, 10/13, p.253
Stainless for monel metal in lubrication fittings, Navy authorizes, 10/20, p.68
Swivel joints hydraulic, IE, 7/7, p.150
Tube bender, gear-type, IE, 10/20, p.142
Tube bulletin, 11/17, p.144
Tube compression-formed, 12/8, p.143
Tube shortage, predicted, 12/15, p.76
Tube stored, twin-rack system, 8/18, p.111
Tubing answers need of dental instrument makers, 10/20, p.119
"Watch charm" mill specializes on small diameter buttweld pipe, 12/1, p.90
Welded heat exchanger tubes, 11/3, p.116

Pipeline:
DPA sets gas pipeline goals, 9/29, p.59
Hydrocoal line, 12/15, p.68
Pipeline under N. Y. harbor, pic., 10/6, p.166
Small pipe needed, 10/13, p.123
See PAD

Plant Dispersal:
Build on higher priced land close to population centers, ENG, 11/10, p.97
Industrial real estate: Industry heads for wide open spaces, 9/29, p.59
Modern industry on move, 7/28, p.51
Offices moved to outlying areas, 9/29, p.39
Proper dispersal requisite before seeking certificate, 7/14, p.57

Plant Layout:
Minimum aisle widths . . . Get the most out of the least plant handling space, 11/10, p.101
Model-three dimensional, 9/29, p.97
New plant layout (Monarch) streamlines production, 10/27, p.75
Plant layout picture new method without drawing, 8/18, p.122

Plant Operation:
Aluminum plant 'stretches', 12/29, p.80
Camp Reynolds, Greenville, Pa., converted to production, 7/21, p.70
Coke plants explosion-proofed, 7/7, p.103
Gas-fired unit heaters cut installation cost, 10/20, p.94
How an inventor and engineer operates (Dr. L. A. Philipp), 11/10, p.79
Jobbing shop runs on mass production, 12/8, p.70
Lift trucks knit nonintegrated plant, 8/25, p.105
Manufacturing cost control, 10/27, p.53
New plant layout streamlines production, 10/27, p.74
Pacific Northwest steel plant in commercial operation, 12/29, p.88
Path to enameling shop rough on base metals, 11/10, p.104
Philippine plant makes first steel, 8/18, p.108
Power system planning pays off in potential, 12/29, p.72
Shadow plants, 11/24, p.73; 12/1, p.49; 12/15, p.77
Test first then fabricate: ASTM members told, 7/14, p.91
Timken converts melt shop to all-electric, 8/25, p.110
Valley Mfg. plant at Newcastle opened, 9/15, p.66
Westinghouse moves into Navy plant, 7/21, p.71

Plant Tours:
Plant tours pay off, 8/11, p.66
Welders tour, 9/15, p.132
Yugoslavia team, 11/10, p.76

Plastics:
Aircraft coatings, 7/28, p.102
Aircraft dies, 12/15, p.122
Aircraft structurals, ENG, 11/3, p.91
Automotive use, 10/6, p.61
Battery covers, IE, 12/8, p.156
Cable insulation, ENG, 8/25, p.91
Dies plastic draw truck panels (Rezolin), 9/15, p.92
Dies plastic, hot development, 10/13, p.111
Draw dies, 12/15, p.122
Encyclopedia, new editions, 9/22, p.186
Flexible plastic tubing, IE, 9/8, p.150
Laminated plastic magnifier, IE, 7/28, p.111
Lettering on commercial buildings made in England, ENG, 8/25, p.91
Machinery cover, 10/13, p.298
Needed: More plastics machinery, 9/8, p.59
Plastic dies draw truck panels, 9/15, p.92
Plastic pipe and fittings on film strip unit, 11/24, p.129
Plastic pipe reinforced with fiberglass, 11/10, p.150
Plastic stiffens aircraft structurals, ENG, 11/3, p.91
Plastics cut tooling costs, ENG, 9/29, p.75
Plastisols, new uses, 9/8, p.122
Plexiglass skylight, 11/17, p.148
Spray gun nozzle protection, 12/8, p.120
Ventilating fan, 11/3, p.132
Vinyl plastisols uses, 9/8, p.122
Water pipe tested, 10/13, p.258

Plating: See Electroplating

Polishing: See Grinding

Platinum:
Supply to increase, 12/29, p.45

Pollution:
Air pollution sampled by new filters, ENG, 12/29, p.71
Anti-pollution equipment, sales prospects, 9/22, p.88
Coal fly ash disposal studied, 8/18, p.120
Ingot mold wash ends coating fumes, 12/8, p.106
Dupont expenditures for air pollution control at Cleveland Wks., 9/8, p.128
Dust and fume elimination investigated, Electric Furnace Conference, 12/29, p.82
See Wastes

Porcelain Enamel Institute:
Forum planned, 7/21, p.124
Moves office, B, 7/7, p.180
National Safe Transit Committee, 10/6, p.100
Officers elected, B, 11/17, p.196

Porcelain Enamels:
Die-pressed porcelains, 12/29, p.85
Path to enameling shop rough on base metals — protect your sheets, 11/10, p.104
Pipe coating, 7/7, p.98
Refinished-fused caustic process, 12/1, p.86

Powder Cutting:
Powder dispensing unit, IE, 12/29, p.97

Powder Metallurgy:
Chrome carbide provides high corrosion resistance, 8/4, p.92
Clock of powdered metal, 11/10, p.142
Copper adds strength, ENG, 7/14, p.83
Flame plating, 9/29, p.82
Kentanium — explosive pressed, 9/29, p.77
Magnetic material, high coercive force, Navy Lab., 7/28, p.76
Nylon powder for rollers sintering, ENG, 7/28, p.75
Powder brass manual, 10/13, p.275
Spur mitre gear, powder metal technique, reduces costs, 7/28, p.82

Power Plants:
Compressor booster takes bottled air, IE, 12/22, p.89

Compressor station, pic, 11/3, p.75
Gaseous diffusion plant for uranium, AEC, Pike county, 8/18, p.71
Power system planning pays off in potential, 12/29, p.[illegible]

Power Transmission (Mechanical):
Brake drum for bus, 7/7, p.54
Brake drum for truck, ENG, 7/28, p.75
Brake motor for transmissions, IE, 8/25, p.133
Change speed units, IE, 10/13, p.327
Chrysler new transmission, 7/14, p.69
Conveyor chain drive for roller, IE, 9/1, p.114
Crawlers get fluid drive, 10/13, p.215
Ford automatic truck transmissions, 11/17, p.71
Hydraulic torque converters, IE, 9/22, p.213
Magnetic clutch assembly, IE, 7/28, p.107
Miniature clutches, IE, 9/22, p.197
Self-propelled ground power unit for aircraft, 7/7, p.100
Speed reducer, IE, 12/29, p.95
Speed transmission line, IE, 7/28, p.111
Tank transmissions, GM, 7/7, p.76
Transmission chain business report, 10/6, p.51
Transmission, multi-speed, IE, 9/8, p.142

Pressed Metal Institute:
Officers elected, B, 10/20, p.169

Presses:
Bench-type arbor press, IE, 12/15, p.104
Deep throat press, IE, 10/27, p.104
Drawing, forming press, IE, 8/18, p.140
Explosive pressing forms new material, 9/29, p.76
Extrusion, Mullins, 10/13, p.130
Extrusion using glass lubrication, 9/15, p.91
Heavy presses challenge industry, 12/1, p.76
Heavy press program (see Air Force)
Hole punch line, IE, 8/11, p.129
Horn press, IE, 12/15, p.157
Kaiser forging presses, 7/7, p.65
Multiple-ram press speeds valve assembly, 10/13, p.321
Multipress forms, blanks microphone diaphragms, 8/25, p.112
Plasticizing injection molder, 9/29, p.97
Platen press, IE, 8/18, p.140
Power press (mall), IE, 7/21, p.138
Power punch press, throat depth, IE, 11/3, p.164
Press bends steel sheets, A. O. Smith, pic, 10/20, p.75
Press brake for shallow draw work, IE, 11/3, p.154
Press breaks billets, 10/20, p.112
Press forges aluminum fans, pic, 12/15, p.81
Press gives ram pressure, IE, 9/15, p.155
Press pierces 20mm shells, 7/21, p.116
Press stop, electro-mechanical, IE, 8/25, p.134
Punch presses, 30-ton, IE, 9/29, p.128
Punch press feeder, IE, 10/27, p.101
Punch press guard, IE, 10/13, p.339
Punch press, Kenco, IE, 9/1, p.112
Punch presses, 180 strokes per minute, IE, 11/3, p.151
Schoemann press turns out air frames, pic, 9/8, p.104
Sheet metal hole puncher, IE, 11/24, p.141
Spring plungers, IE, 9/15, p.167
Stamping press, automatic, IE, 10/27, p.103
Straightening press, travelling head, IE, 7/21, p.135
Toggle press, IE, 10/20, p.136
Touch control, 11/3, p.144
Variable speed press, 10/13, p.303

Prices:
Alcoa asks increase, 7/21, p.51
Coal (hard), 75c ceiling boost, 8/18, p.58
Coal (soft), effect of new wage contract, 9/29, p.48
Dodge 5% lower, 10/20, p.54
Durable goods, OPS formula, 8/4, p.66
FTC pricing policies, 12/8, p.65
Finished steel price index, weekly basis (BLS), 9/8, p.28
Magnesium, Brooks & Perkins cut, 11/17, p.60
Steel:
  Prices announced, 8/25, p.66
  Formula sought; $5.20 ton; industry 4.7% over ceilings, products listed, 8/4, p.62
  Interim relief unlikely, 8/18, p.65
  Pass-through percent likely; no interim relief, 8/18, p.65
  Pass-through, full metals increase, 9/1, p.56
  Pass-through, metals increase but no provision for wage increase, 9/15, p.63 and 9/22, p.84
  GSP submits to OPS "approval" chart, 8/11, p.56
  Steelman-Putnam discuss, 8/25, p.65
Relief line at OPS, 11/3, p.63
TV cut, '53, 8/18, p.58
Weirton seeks $5.50 ton hike, 7/7, p.62

Procurement:
Armed Forces merge procurement supply, 9/15, p.68
Armed Forces attacked by management, 7/28, p.52
Arms purchased abroad, 7/28, p.57
Army foundries, 7/14, p.175, 8/18, p.175
Army Ammunition, Laidlaw heads, 9/1, p.65
Army weapon changes, 9/15, p.70
Army salvages brass, 9/29, p.54
Christmas gifts discouraged, 11/10, p.76
Congress should simplify, 8/18, p.72
Defense amount obligated '52, 8/4, p.66
Fowler report, 10/13, p.124
Navy rules, 12/29, p.50
Navy, sampling shows small business gets half, 8/18, p.72
Officers study industry handling, 9/15, p.70

Production:
Aircraft rising, 7/7, p.54
Aircraft units, 12/29, p.47
Alloys postwar high, 8/25, p.68
Autos, trucks, '52, 8/18, p.57
Blast furnace, 9/15, p.69, 9/29, p.52
Boron steels, ENG, 12/15, p.103
Castings high, 9/29, p.50
Cobalt, 12/15, p.143
Electronics boom, 7/7, p.54
Machine tools, 12/22, p.37
Steel, 7/21, p.61, 8/18, p.67, 9/15, p.69, 10/20, p.62
Steel expansion, how does it match our economy? 9/22, p.114
Steel ingot, 10/13, p.120
Steel ingot, West Coast, 12/1, p.59
Steel losses, companies reported, 8/18, p.66
Toys, 12/22, p.45
Truck-trailers, 12/22, p.45
Truck trend, 12/1, p.39
West Coast steel, 12/1, p.59
World industrial drop, 10/20, p.54

Production Tools:
See Defense Contracts
See Defense-SDPA
See Machine Tools

Production Processes:
Carbide clamped tools handle gun tubes faster, 9/8, p.99
Compressed air steps up production, 10/27, p.76
Controls ease production of stainless tubing, 8/18, p.94
Conveyors boost machine tool production (Brown & Sharpe), 11/3, p.94
Custom mill tackles production headaches, 12/8, p.94
High geared production with induction heating, 9/8, p.88
Lathe bed ways flame-hardened at Monarch Machine, 12/29, p.86
Link-Belt jobbing shop, 12/8, p.70
Manufacturing shift (jets) slashes production time, 12/22, p.64
Mass production: But with an eye on versatility, 12/15, p.110
Nondestructive testing: Quality with fewer end-product failures, 10/13, p.158
Plant layout streamlines production, 10/27, p.75
Test first then fabricate: ASTM members told, 7/14, p.91
Vacuum impregnates metal castings (Northrop), 7/14, p.88

Pumps:
Barrel pump, IE, 10/27, p.107
Centrifugal pumps, IE, 8/18, p.142
Centrifugal fire pump, IE, 10/13, p.339
Chemical injector, IE, 7/7, p.146
Coolant pump, IE, 9/29, p.118
Coolant pump, IE, 10/27, p.119
Drum spray pump, IE, 10/6, p.137
Electromagnetic pumps metals, ENG, 7/21, p.87
Giant vacuum pumps, ENG, 10/20, p.89
Hydraulic pic, Fisher Body, 9/15, p.77
Jet reheat pump, 11/17, p.135
Power-pumps dispense material, IE, 9/1, p.118
Power units 30-80 gal., IE, 8/25, p.133
Rubber pump moves acids, IE, 9/22, p.204
Screw pump for lubricating, IE, 9/8, p.152
Small pump line, IE, 7/21, p.136
Spray gun supply pump, IE, 8/4, p.143
Stainless pumps move acids, 12/1, p.86
Turbine vane pumps, IE, 7/14, p.136

Q

Quality Control:
Nondestructive testing: Quality with fewer end-product failures, 10/13, p.158
Quality analysis, savings report, ENG, 12/15, p.103
Quality Control: It's in the reach of small foundries, 11/17, p.86
Savings, silicon content, ENG, 12/15, p.103
Spares control program, 7/28, p.88

Quenching:
Hot oil for hardness, ENG, 12/1, p.75

R

Radio, Television:
Electrostatically-focused picture tube, 7/21, p.118
FCC authorizes TV stations, 11/10, p.61
Industrial TV, 12/1, p.107
TV camera, 12/15, p.152
TV color not to make present receivers obsolete, 9/1, p.46
TV tube plants: Westinghouse, 12/15, p.143
TV tube replacement cost, 9/29, p.40
TV tubes, steelmaking problem, 12/15, p.132

Radio-Television Manufacturers Assn.:
Conservation techniques cited, 7/21, p.118

Radiography:
Hot radiography cuts weld inspection time, 10/27, p.72
"Pint-size" unit speeds radiographic ship inspection welds, 11/10, p.103

Rail Steel Bar Assn.:
Steel fence posts standards folder, 8/25, p.70

Railroads:
Boxcars, rubber cushion underframe tests, 10/13, p.258
Diesel, Fairbanks, B, 12/8, p.185
Dieselization way-station on road to electrification, ENG, 11/24, p.97
Engine, dual-fuel, pic., 12/22, p.123
Expansions coming, 8/4, p.53
Expansion timetable (freight cars, diesel-electric locomotive units), 8/18, p.68
Experimental locomotive smoother, ENG, 12/15, p.103
Gondolas get malleable steel floors, 7/7, p.54
Heavy-duty car to carry generators, 7/21, p.127
Heavyweight flat car carries 250 tons, pic., 10/27, p.148
Hopper cars for Venezuela, 10/20, p.71
Jeep-railroad car, 10/6, p.61
Locomotive diesel plant switcher, 9/15, p.114
Locomotives get brushes, 11/10, p.152
Rail equipment prospects, 12/29, p.35
Rock Island new rail, ENG, 9/1, p.81
Scrap yard crane, 7/28, p.49
Spray booths, ENG, 8/18, p.93
Welds used in railroad car repair, 7/7, p.130
Wheel boring with new tool, 8/4, p.125

Ramming:
Shell cases from seamless steel tubing, 7/14, p.90

Rare Earths: See Metals

Raw Materials:
Estimated inventories Dec., 12/1, p.47
Strategic elements emphasis is on conservation, 9/1, p.82

Reclamation:
Manganese recovery studied, 9/8, p.65
Sulphur removed from gases, 10/20, p.121
See Wastes

Refractories:
Cast refractory trend, 11/10, p.134
Chilled salts protect pot furnace linings, ENG, 11/10, p.97
DPA goals, 10/13, p.292
Fiberfrax, Carborundum, 8/11, p.94
Furnace maintenance, 7/28, p.92
Gen. Refractories, silo stores chrome ore, 7/28, p.92
Soaking pit covers poured with castable refractory, 7/21, p.100
Strike effect, damages to furnaces, 8/4, p.63
Timken's preshaped furnace roofs, 7/14, p.104

Refractories Institute:
Meeting, B, 7/7, p.177

Renegotiation:
See Defense Contracts

Research:
Atomic energy (see)
Automotive research — trailblazer for metalworking, 11/13, p.166
Federal funds, 11/24, p.61
Government seeks data, ENG, 7/28, p.75
High speed photography: Steel research tool, 7/7, p.90
Leak stopper research, GE, ENG, 10/13, p.147
MIT steel research for Navy, 9/29, p.75
Metals below zero, Perfection Stove, ENG, 8/4, p.89
Metallurgical reports, OTS, 12/8, p.131
NACA Lewis Flight lab, jets with afterburners, pic., 10/20, p.102
NACA Ames Aero lab (One way to handle a big forging job), 10/6, p.76
NACA Ames Aero, supersonic wind tunnel, ENG, 9/29, p.75
NBS studies: Coatings, 8/11, p.97
Navy:
  Bearing corrosion, 7/28, p.84
  Centrifuge chamber, pic., 7/28, p.87
  Permanent magnetic material, 7/28, p.76
  Thin stainless butt welded, ENG, 9/29, p.75
  "Teleplotter" of missiles, ENG, 8/25, p.91
  Tube coating, ENG, 10/6, p.75
Outside facilities extend scope of industry research, 8/4, p.96
Shell molding data, 12/22, p.68
Spectrochemical excitation unit: A key to essential control in boron steels, 10/6, p.92
Temperature standardization: Big gain in research, 8/11, p.90
Tin can research, 10/13, p.122
Tritium, new light source, 10/13, p.147
Westinghouse soundless lab, ENG, 7/7, p.89

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*

Research Institute of America Inc.:
Reports Lewis on contracts, 8/25, p.59

Resources for the Future Inc.:
Meeting scheduled, 12/22, p.42

Rivets, Riveting:
See Fasteners

Roads:
Expenditures '52, also private funds, 7/14, p.62
Expenditures needed, 12/22, p.28
Highway construction high, 7/7, p.54

Rolling Mills:
Alcoa mill, Iowa, 9/15, p.66
All-steel bending rolls, IE, 12/29, p.100
Continuous 4-high mill for hot rolling wide strip, pic., 9/8, p.100
Continuous mills controlled by electric brains, 11/3, p.106; 11/10, p.112
Custom mill handling, American Silver, 12/8, p.94
France gets loan for mill, 11/10, p.81
New rolling mills installed since Jan. 1 or yet to be installed (companies), 9/22, p.158
Rod mill roll grooving, precision gang tools speed machining, 9/15, p.106
Scovill process, bars to flats in seven passes, ENG, 8/4, p.89
Seidelhuber mill, B, 12/8, p.185
Seidelhuber mill (Pacific Northwest) in commercial operation, 12/29, p.88
Sendzimer mill, end view, pic., 7/14, p.92
See Steel Mills

Rubber:
Army tanks rubber tracks, 11/10, p.76
Plaid sidewalls on tires, 11/3, p.127
Rubber rims tested, 7/14, p.125
Temperature tester, 7/14, p.125
Tire-tubeless giant, 9/15, p.126

Russia:
Germans escaping claim Russian steel capacity up, 9/1, p.45
Russian-built tractors examined, ENG, 7/21, p.87
Tanker from Denmark, 8/4, p.68

Rutgers University:
Vision conference, 9/15, p.96

Rutile:
Substitutes sought, NPA, 10/13, p.303

St. Lawrence Seaway:
Auto industry fund, 10/13, p.112
New York project approved, 7/7, p.68

Safety:
Accidents in '51, 7/28, p.82
Coke plants explosion-proofed, 7/7, p.103
Cradle supports tooling work, IE, 8/11, p.128
Heat resistant gloves, 11/10, p.136
Industrial dermatitis, 8/4, p.94
MSA Chemox oxygen respirator, 8/18, p.107
Magnifying spectacles, IE, 12/15, p.164
National Safety report, 11/17, p.68
New product hazards told, 12/22, p.77
Photographs sell safety program, 8/18, p.96
Plant protection, alarms, 10/20, p.72
Republic wins award, 12/22, p.127
Respiratory devices listed, 7/28, p.98
SDPA booklet, 7/21, p.118; 9/15, p.105
Vision conference, 9/15, p.96

Salaries:
Salary workers wages, U. S. Steel (non-union), 9/15, p.56
Salaries: Are they in line?, 7/14, p.48
Violators hit by OSS, 8/11, p.62

Sand:
Water-borne sand makes mine floors, 8/11, p.92

Sawing:
Friction sawing, "Band saw walks through metal," 10/20, p.92
See Machine Tools & Attachments

Scales, Weighing:
Axle load scales, IE, 10/6, p.133
Conveyor belt weighing, 12/8, p.112
Electronic weigh trucks, railroad cars, 11/10, p.156
Truck scale, installation problem, 11/17, p.147

Scientific Apparatus:
Business report, 7/14, p.65

Scientific Apparatus Makers Assn.:
Panel on engineer shortage, 12/8, p.143

Scrap:
AEC test, scrap contaminated with uranium, 12/15, p.138
Baling, conveyor system, 12/8, p.100
Coils of scrap cut to spec., 9/22, p.183
Iron and steel supply, 9/22, p.88
Locomotives (pic.) for scrap, 9/22, p.240
Pickling containers made from punch press scrap, ENG, 9/8, p.85
Price drop due, 8/25, p.55
Supply, 12/1, p.47; 12/15, p.76

Sealing:
Glass sealing, alloy of tin-indium used, 12/8, p.96

Shadow Plants: See Plant Operation

Sheet, Strip:
Alloy adds life to sheet conveyor rolls, 12/29, p.90
High-nickel strip, 11/3, p.127
Sheet separator, 7/14, p.112
See Steel Mills

Shell Cases:
Rammed shell cases from seamless tubing, 7/14, p.90
Shell gaging, industry-Army cooperate, 11/10, p.74
See Machining

Shipments:
Industrial motor controls (chart), 9/29, p.51
Iron ore, Aug.-Nov., 12/15, p.68
Lake cargo records, 9/15, p.67
Welding rods, 10/27, p.46

Ships, Shipbuilding:
Army BARC, 12/8, p.71
Arthur M. Anderson, pic., 8/18, p.66
Barge carries molten sulphur, ENG, 10/6, p.75
Barge output slows, 10/13, p.286
Bethlehem lays superfreighter keel, B, 12/22, p.126
Cargo ships, Bethlehem, 11/17, p.50
Comparative statistics for shipping, ship construction, 8/25, p.70
Contracts, government payments, 8/25, p.70
DPA expansion goals, 9/8, p.58
Dredge for Alaskan project, 9/15, p.200
Ernest T. Weir construction, 9/8, p.119
Ernest T. Weir launched, 12/1, p.178
Iron ore ships named, B, 10/20, p.169
John G. Munson built, B, 8/11, p.157
John G. Munson clears berth, pic., 8/25, p.165
John G. Munson unloads, 11/17, p.198
Joseph H. Thompson christened, B, 11/3, p.196
Navy, new mast design, 7/14, p.83
Port facilities next, 10/13, p.111
Power plant on drilling barge, pic., 10/6, p.163
Radiographic weld inspection, 11/10, p.103
Thermit welding, ship frame, pic., 8/25, p.65
SS United States air conditioned, 7/21, p.128

Shipping:
Air freight, 12/29, p.46
Lake ore winter shipments not feasible, 7/21, p.51
Rail ore starts, 8/4, p.53
Engine shipped as one unit, 10/13, p.227
Forging hammer, 50,000 lb, ENG, 12/22, p.63
Generators in heavy car, 7/21, p.127
Generators to Portland, 9/8, p.132
Labels shave costs, ENG, 7/21, p.87
Molten iron to Gary, pic., 9/1, p.59
Pennsy plans pier, B, 12/22, p.126
Safe transit program expands, 10/6, p.106
Swedish-American line loads cargo, pic., 11/3, p.73

Shop Equipment:
Fabricator combined table, tool rack, 8/25, p.126
Reel jack, IE, 7/14, p.146
Storage shelving, IE, 9/15, p.166
Swivel caster turntables, IE, 11/3, p.160
Work benches tailored to fit, 7/28, p.90
Work benches for Air Force, 10/20, p.121
Work benches, IE, 11/17, p.159

Shot Peening:
Airless blaster performs both cleaning, peening, 7/21, p.115

Sintering:
Collector system ups mill scale recovery, 10/20, p.102

Small Business:
Allotments for expansion, 9/1, p.64
Charts show percent employees, 9/1, p.57
DPA defines small business for wage controls, 8/4, p.66
DPA, small plants favored, 8/18, p.68
Expansion aid, 30-days to file, 7/21, p.65
Labor organizers turn to smaller plants with demands, 9/1, p.57
Navy, Army contracts, 7/7, p.54
OSB free mailing list, 7/21, p.69
Plant safety neglected, 11/17, p.68
Small business in action:
  Government relations, 11/17, p.57
  It's part in defense, 11/17, p.59
  A case study, Michigan Crane, 11/17, p.67
  Industrial relations, 11/17, p.68
  Quality control: It's in the reach of small foundries, 11/17, p.86
Steel capacity survey, AISI, 10/13, p.130
Subcontracts, weapons, ammunition, 9/8, p.63

Small Defense Plants Adm.:
"Circuit riders," 11/17, p.64
Contract awards, 12/22, p.40
Decentralization urged, 9/15, p.70
Horne adm., 9/29, p.53
Leaflets:
  Drives maintenance, 7/21, p.118
  Efficiency hints, 9/15, p.120
  Inspection tips, 8/18, p.120
  Shop safety, 7/21, p.118; 9/15, p.105
  Tool grinding, 9/8, p.104
Loans, 10/20, p.66
Loans hit $28 million, 12/1, p.51
N. Y. office move, 12/15, p.199
Pools formed, 7/21, p.64; 9/8, p.182; 11/17, p.195; 12/1, p.51

Smelting:
Air furnace smelts zinc, 10/13, p.268
Furnace changes needed, 9/22, p.172

Smoke:
Fairless open hearths almost smokeless, ENG, 8/11, p.83

Society of Automotive Engineers Inc.:
Aircraft spec list, 9/15, p.147
Meeting, truck maintenance at power plants evaluated, 8/18, p.111

Society of the Plastics Industry Inc.:
Group formed, 12/1, p.102
Meeting, 12/15, p.138
Plastic water pipe test, 10/13, p.258

Society of Motion Picture & Television Engineers:
Speed photography meeting, 10/20, p.122

Soldering:
Aluminum solder, 7/14, p.125
Solder noncorrosive, 7/28, p.75
Solder paste painted on, 12/29, p.90
Solder tip heads in 6 sec., 11/10, p.126
Soldering iron, IE, 9/8, p.155
See Flux

Sound: See Noise, Ultrasonics

Spinning:
Metal spinning: Ancient art with a modern twist, 8/11, p.59

Sprays:
See Finishes, etc.

Springs:
Starter spring, Sandsteel Div., ENG, 7/21, p.87

Stainless Steel:
Casting stainless steel centrifugally (jet engine rings), 10/6, p.78
Check heat treating unstabilized steel, ENG, 8/11, p.83
Descaling bath, pic., 7/14, p.130
Special grade dev. by Armco for jet, ENG, 8/11, p.85
Type 430 draws well, 12/8, p.140

Stamping:
See Business
See Marking, Stamping

Standards:
Aircraft spec. list, 9/15, p.147
Alloy steels, chart, 9/15, p.120
Copper welding specs, 10/13, p.250
Electric code, world meeting, 12/8, p.134
Electric motors rev., 11/24, p.71
Engine standards, 8/25, p.115
Engine standards checked, 12/8, p.126
Felt standards, 10/13, p.310
Hack saw revisions, 11/3, p.122
ISO agrees on steel tests, 7/7, p.122
Lathe specs approved, 8/4, p.95
Mellon Institute study, 7/14, p.122
Military airplane specs not set, ENG, 8/18, p.93
Military spec covering steel heat treatment, changes proposed, ENG, 11/3, p.91
NATO lack engineering standards, 12/15, p.149
RPM motors proposals, 12/8, p.57
Stainless steel pipe dimensions, 7/14, p.124
Temperature standardization: Big gains in research, 8/11, p.90
See American Standards Assn.
See Nat'l Bureau of Standards

Stanford University:
Pilot study, 12/15, p.68
Proton bombardment analyzer for atoms, 11/17, p.132
Shell molding machine designed, 10/20, p.100
Western resources compiled, 8/18, p.128

Steel:
Conservation emphasized, 9/1, p.82
Conversion (see CMP)
Copper-clad steel plate, 10/13, p.272
Crucible 422 cuts alloy requirements, 11/17, p.126
Distribution (see CMP)
Drill steel, trend to hollow alloys, 10/13, p.300
Earnings (see Financial)
Expansion objectives, 9/1, p.45
Export curbs lifted, 8/18, p.69
Finished steel prices on weekly basis, 9/8, p.28
High strength (see Alloys)
ISO agrees on steel tests, 7/7, p.122
Lead-bearing steels new, 7/7, p.100
Shortage: Worst to come, 7/7, p.61
Steel specs, Navy gives commercial identifications, 8/4, p.68
Steel stretchout, 9/15, p.65

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Structural steel: New starts limited for a while, 10/6, p.49
Supply-demand balance nearer, 9/22, p.81
Surplus worry, 11/3, p.79
Wage increases, cost to industry, 8/4, p.53
Tool steel graphitic, new at Timken, 8/18, p.118
See Capacity
See Prices
See Warehousing, Distribution

Steel-CIO Dispute:
Capehart hike vetoed during strike, 7/14, p.56
Companies signed, 7/7, p.61
Increase recommended by WSB, 8/11, p.56
Kaiser Aluminum & Chemical signs, 7/28, p.40
Settlement package—cost to companies, increase to worker, 7/21, p.59
Settlement: strike ends, 7/28, p.47
Settlements: economic terms, 8/4, p.64
Steelworkers polled, Youngstown district, 7/21, p.59; 7/28, p.47
Strike could kill union power, 7/14, p.62
Strike cost, 7/14, p.55; 7/21, p.59; 7/28, p.48
Strike impact on last-half business, 8/4, p.79
Strike recovery timetable, 7/7, p.61
Strikes of other years, pictures, 7/14, p.55
Union members polled on union shop, 7/28, p.47
Union Security: Labor's grip tightens, 7/14, p.58

Steel Founders' Society of America:
Meeting, 9/29, p.50
Visual aid: casting story shown student groups, 9/15, p.112

Steel Kitchen Cabinet Manufacturers Assn.:
Meeting, Cleveland, 12/8, p.66
Members added, B, 7/21, p.177

Steelmaking:
AISE told to watch for timesavers, 11/3, p.138
Alloys for high strength (see Alloys)
Aluminum good yardstick for steel grain size, 11/17, p.96
Better steels, MIT studies, ENG, 9/29, p.75
Bigger tool steel bars, 11/3, p.96
Capacity (see)
Carbon content determines boron steel behavior, 10/13, p.154
Carbon determination—analysis, ENG, 12/29, p.71
Carbon solubility, Navy tests, 11/10, p.153
Ceramic coatings prevent carbon absorption, 8/18, p.116
Chrome plating pays off for steel mills, 11/24, p.108
Cinder pot manufacturing "Creating a thimble," 10/20, p.90
Coke plants explosion-proofed, 7/7, p.103
Crucibles of graphites domestic, 11/10, p.148
Electronic detects molten steel temperatures, 10/13, p.262
Hydrogen control still a problem, ENG, 9/8, p.85
Ion exchange new hope for waste recovery, 10/20, p.96
Latin American steelmaking, 11/24, p.79
Low blast (see Blast Furnaces)
Lubricants must survive tough treatment, 10/13, p.228
Luminous flame increases heat transfer, 9/1, p.94
Molten heat measured, 11/10, p.106
Pig iron without coke (German process), 8/4, p.71
Renaissance in steelmaking methods, 10/27, p.94
Small plant capacity, AISI survey, 10/13, p.130
Soaking pit covers poured with castable refractory, 7/21, p.100
Spectrochemical excitation unit: A key to essential control in boron steels, 10/6, p.92
Steel drawability measured, 8/4, p.100
Steelmaking processes re-examined, AISE, 10/6, p.102
Sub-zero strain aging affects ingot iron properties, 9/1, p.86
Tensile strength of iron test, 11/17, p.85
Timken converts melt shop to all-electric, 8/25, p.110
Tool steel bars, Latrobe overcomes size barrier, 11/3, p.96
Wet dust recovery, 8/11, p.98
See Rolling Mills
See Steel Mills

Steel Mills:
Barium buys seamless tube mill, 11/24, p.73
Chrome plating pays off for steel mills, 11/24, p.108
Cold reduction mill, Armco, 12/22, p.28
Collector system ups mill scale recovery, 10/20, p.102
Custom mill tackles production headaches, 12/8, p.94
Electric brain regulate continuous mill drives, 11/3, p.106; 11/10, p.112
European mill rehabilitated, 7/21, p.115
India's mill (Japan-India financed), 12/15, p.80
Pacific Northwest steel plant in commercial operation, 12/29, p.88
Path to enameling shop rough on base metals . . . protect your sheets, 11/10, p.104
Philippine plant makes first steel, 8/18, p.68
Philippine 1st steel ingot mill, 12/1, p.57
Precision gang tools speed roll grooving, 9/15, p.106
Seamless tube mills, 12/22, p.27
Special machine improves stainless roll finish, 12/22, p.66
Steel sheet drawability measured in a minute, 8/4, p.100
Stretcher improves physical properties of stainless bars, 7/28, p.79
Strip width held to close limits, 9/29, p.94
"Watch charm" mill specializes on small diameter buttweld pipe, 12/1, p.90
Wide strip mill opens world of new ideas, 9/8, p.100
Youngstown Sheet (Ind. Harbor Wks.), 11/3, p.64

Stitching:
See Machines

Stockholding: (see Financial)

Stockpiling:
Government drive renewed, 8/25, p.64
Ore yards empty, pic., 8/4, p.62
See Warehousing, Distribution

Storage:
Die elevator soothes storage headache, 12/15, p.124
Machine tool builders' program, 12/8, p.72
Motor fuel storage studied, 7/21, p.127
Sikorsky grating for overhead storage, 8/4, p.128
Silo facilities cut chrome ore steps, 7/28, p.92
Tube stored twin-rack system, 8/18, p.111

Strikes:
See Labor
See Steel-CIO

Strapping:
Coils cut to spec., 9/22, p.183

Subcontracting: (see Defense Contracts)

Sulphur:
Floating mine hunts undersea sulphur, 10/27, p.47
IMC allocates, 7/28, p.59
Molten sulphur shipped by barge, ENG, 10/6, p.75
Sulphur removed from gases, 10/20, p.121

Surface Treatment:
Aircraft fuel tanks "slip covers," 9/1, p.87
Centerless belt grinds extruded stock (bar and tube), 12/8, p.102
Chromium plating pays off for steel mills, 11/24, p.108
Cold galvanizing for surface protection of steel, new process, 7/21, p.128
Crush grinding produces intricate surface broaches, 9/1, p.103
Descaling shell rings without abrasives, 7/14, p.130
Electrolytic alkaline descaler, 11/17, p.148
Hot dip aluminizing affords protective surface, 7/14, p.100
Ingot mold wash ends coating fumes, 12/8, p.106
Metallizing saves pistons, 11/3, p.146
Roll grooving, precision gang tools speed, 9/15, p.106
Special machine improves stainless roll finish, 12/22, p.66
Thermo-chemical process gives corrosion resistance to mild steel, 7/28, p.99
Ultrasonic cleaning for small parts, 11/3, p.93
Welder replaces burned-off galvanite, 10/13, p.322

Surveys:
Associated Industries of Cleveland: Union security, 7/14, p.58
Delivery dates (Assn. mfg. poll), 9/22, p.83
Metalworking expansion for '53, 12/22, p.35
NIC polls executives on sales training programs, 11/10, p.61
Purchasing tools (survey), questions, ENG, 12/22, p.63

T

Tape:
Abrasive belt aided by strapping tape, 9/15, p.136
Adhesive tape for plant layout drafting, 12/8, p.138
Taped templates, 10/20, p.120
Tapes seam before welding, holds flux, 10/13, p.261
Thinflex masking tape, IE, 12/22, p.92
Quik-Masks, paper tape, IE, 11/17, p.162

Technical Aids to Industry:
Commerce Dept. exhibit, 11/10, p.133

Tin:
Bolivia seeks RFC contract, 8/4, p.54
Senate committee-tin producers argue, 7/28, p.49

Tin Cans:
Tin channeled to save food spoilage, 8/4, p.64

Tin Plate:
Kaiser opens electrolytic tin line, 12/8, p.112

Titanium:
Agreement, DMPA v. du Pont, 8/4, p.66
Air Force, use discussed, 9/1, p.58
Air Force uses, "fair share" of expense accepted, 12/1, p.52
British to produce, 11/24, p.62
Flash welding for joining, ENG, 12/1, p.75
Navy, future use, 11/17, p.112
Navy research, 11/17, p.49
Rem-Cru booklet, 9/8, p.119
Rem-Cru reports growth, ENG, 7/7, p.89
Republic produces, 8/25, p.100
Ryan contract, aircraft research, 10/20, p.63 and 12/8, p.136
Titanium forging experience mounts, 12/15, p.104
Titanium: Middleweight metal grows up, 10/20, p.63
Titanium: It can be formed and drawn, 9/8, p.93
Titanium alloys flash welded easily, 7/14, p.84
Titanium alloys flash welding, ENG, 12/1, p.75
Valve trim, Crane, 9/22, p.85
Warehouses to stock, 9/8, p.61
Watertown Arsenal symposium, cheaper refining, DPA goals, 10/20, p.63

Tool & Die Industry:
Apprentice upgrading, protests, 9/8, p.50
Business report, 8/18, p.67
High-duty irons reduce costs, 9/15, p.94
See Dies

Tool Steel Bars:
Bigger tool steel bars . . . the inside story, 11/3, p.96

Tooling:
Auto companies tool for aircraft output, 9/29, p.62 and ENG, p.75
Better tooling gives interchangeability (two companies combine on retooling), 11/10, p.98
Big tooling job completed in record time (aircraft components), 10/6, p.80
Dodge '53 model, 11/24, p.84
Tool replacement program, ENG, 11/17, p.85

Tools (Cutting):
Airbrasive unit cuts metal, 7/14, p.112
Angle drills, IE, 12/1, p.131
Bar setup cuts taper time, 8/4, p.102
Blasting tools, ENG, 12/15, p.103
Carbide cutter combines solid-inserted blade, 9/15, p.155
Carbide cutoff for screw machine, IE, 9/15, p.171
Carbide indicator points, IE, 12/22, p.97
Carbide inserts reduce turning time of cast iron drier rolls, 7/28, p.84
Carbide line, 11/3, p.105
Carbide line, 12/15, p.152
Carbide tipped circular saw, IE, 7/21, p.151
Carbide tool grinder, IE, 11/10, p.180
Carbide Tools: The tip's the trick, 8/25, p.67
Cemented tungsten carbide clamped tools for gun tubes production, 9/8, p.99
Cemented tungsten carbide drill heads, triple-edge, off-center, 11/3, p.105
Circular cut-off tool, IE, 11/10, p.169
Cup grinding wheel, IE, 9/22, p.210
Drill delivers 21 ft oz of torque, IE, 11/17, p.153
Drillhead, fixed center, IE, 11/17, p.153
Guillotine cuts rod, IE, 8/11, p.121
Guillotine shear, hydraulic, IE, 10/13, p.327
Hard steel drill, IE, 10/27, p.110
Hub wheel borer, 8/4, p.125
Masonry cutter, dustless, IE, 11/17, p.153
Metals, machinability theory pays off, 8/18, p.98
Portable nibbler cuts stainless, IE, 10/13, p.339
Reamer grind, IE, 11/17, p.164
Reamer's shank interchangeable, IE, 7/14, p.148
Shear cuts, beads and forms sheet, IE, 12/8, p.161
Shear cuts 24-ft plate, 8/4, p.98
Shear cuts scrap, IE, 10/6, p.130
Shear cuts wire rope, IE, 10/6, p.133
Shear, hand-held, cuts sheet, 10/6, p.97
Shear, power squaring, IE, 7/28, p.110
Shear-turnover unit joins cropping, inspection, 7/21, p.90
Templates protected by masking tape, 10/20, p.120
Trepanning, triple-edged cutter mount, 10/13, p.312
Wheel dresser, IE, 7/14, p.146; 8/25, p.139
Precision gang tools speed roll grooving, 9/15, p.106

Tools (Hand):
Box wrenches reproportioned, IE, 9/22, p.213
Crimping tool, IE, 10/6, p.121
Electric hand drills, IE, 10/27, p.104
Hand bar speed knobs, IE, 9/22, p.210
Hand blade, IE, 8/18, p.151
Magnetic tool feeds steel into presses, IE, 11/24, p.138
Ratchet wrench, 11/24, p.129
Riveter operates by hydraulic valve, IE, 11/17, p.164

Tools (Misc.):
Air-driven screwdrivers, IE, 8/18, p.140
Broken tap and drill remover, IE, 10/13, p.328
Combination lighter, tip cleaner, IE, 8/11, p.129

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*

Demagnetizer, portable, IE, 10/13, p.338
Extractor pulls bearings, bushings from blind holes, 7/21, p.130
Flaring tool, IE, 8/25, p.133
Hydraulic jack, IE, 9/29, p.131
Missing tools, clinic, 10/20, p.73
Puller removes injection nozzle, IE, 9/8, p.152
Puller-three arm, IE, 9/15, p.167
Ratchet repair kits, IE, 8/4, p.163
Ratchet wrenches, IE, 12/29, p.97
Screwdrivers, clutch head, IE, 9/15, p.171
Stub taper turret tool holder, IE, 9/29, p.134
Terminal crimping tool, IE, 12/15, p.175
Tool bit holder, IE, 12/1, p.141
Toolmakers' parallel clamps, IE, 7/21, p.151
Tube bender, IE, 10/20, p.142
Twist drills, catalog, 12/8, p.131

Toys:
Sales, business, 12/22, p.45

Training:
Books, how to broaden skills of nation's work force, 10/20, p.121
Carboloy carbide specialists, 12/15, p.108
College professors study business, Case Inst., 7/28, p.58
Diffraction school, 8/25, p.97
Executive training, 12/8, p.138
Instrument mechanics, 9/22, p.190
NIC polls executives on sales training programs, 11/10, p.61
Spray paint school scheduled, 7/28, p.94
Training can cut your costs: (How to set up a training program), 7/14, p.66
See Case Inst

Transportation:
Personnel conveyors, A look into the future, 12/1, p.58
Trolley coaches, S. A. market, 9/29, p.51

Tubing: See Pipe, etc

Tumbling:
Ceramic used as tubing media, 12/8, p.117
Flask-type tumbling barrel, IE, 12/1, p.136
Pocket Tumbler, IE, 9/29, p.124

Turbines:
Army orders rail power plant, 11/10, p.152
Gas turbine designers call for stronger materials, ENG, 11/17, p.85
GE Alloy "Cond-Al" means more powerful turbines, 9/15, p.143
GE turbine runs at 1100° F, 10/13, p.297
Kaplan runner, pic., 7/7, p.98
Navy, new condenser for vessels saves metals, ENG, 8/4, p.89
Solar Aircraft, 12/29, p.45
TVA pump-turbine award, 11/24, p.125

Turkey:
Roads get extension, 9/29, p.57

U

Ultrasonics:
Tool steel bars tested, 11/3, p.96
Ultrasonic cleaning pays off for small parts, 11/3, p.92
Ultrasonic descaling, ENG, 12/22, p.63

United Nations:
Economic Commission for Latin America meeting, 11/24, p.79

University of Chicago:
Metal research program, B, 11/10, p.209

University of Minnesota:
Directory charts Mesabi mines, 8/18, p.122

University of Wisconsin:
Electronics aid motion study, 12/15, p.119

X-ray world-wide studies reviewed, 12/15, p.152

Uranium:
AEC plant for Ohio, 8/18, p.71, Goodyear to operate, B, 10/6, p. 163
Four plants to recover uranium, B, 9/29, p.161

Used Machinery:
Sales decrease, 10/13, p.123

V

Vacuums:
Northrop vacuum impregnates metal castings, 7/14, p.88

Valves:
Air valve, IE, 7/28, p.111
Air valve, spring-centered, IE, 8/4, p.158
Booklet, solenoid uses, 12/29, p.85
Bronze needle valve, IE, 8/25, p.139
Flow-rate regulator control, IE, 7/7, p.150
Gas, air lines check, IE, 9/29, p.131
Gas cutoff valve, IE, 9/22, p.210
Miniature indicators, IE, 8/11, p.133
Old's camera-wire recorder plots valve performance, 9/8, p.72
Pilot air valves, IE, 12/22, p.97
Pilot Master valves, IE, 9/1, p.127
Piston-operated steam trap, IE, 7/21, p.148
Solenoid pilot valve, IE, 11/24, p.138
Stack valve-large design, 8/11, p.92
Surge control for pump, IE, 7/7, p.143
Tel-Alarm, plugs-in, IE, 9/1, p.124
Titanium trim, 9/22, p.85
Valve pressure operated, IE, 9/22, p.208
Ventomatic air control valve, IE, 7/21, p.146
Worm gearing for plug valves, 9/1, p.97

Venezuela:
Steel sought, 11/3, p.55
U. S. hopper cars shipped, 10/20, p.71

Ventilation:
Ventilated tube bus, 11/19, p.147

Vibration:
Air vibrator for bench work, IE, 9/1, p.124

Visual Aids:
Castings story shown engineer groups, 9/15, p.112

W

Wage Stabilization Bd.:
Advisory services end, 9/8, p.63
Changes effective July 30, 7/14, p.60
Small firms wage controls, 8/4, p.66

Wages:
Aluminum workers, 10% hike, 7/14, p.48
Average factory pay, 12/1, p.40
Average hourly earnings, BLS, 9/1, p.53
Chart, hourly earnings in manufacturing, countries listed, 9/1, p.63
Coal miners, $1.90 increase, 10/6, p.39
Coal, northern soft coal operators:
  Contract changes, 7/28, p.39; 8/25, p.56
  Contract negotiated, 9/29, p.48
  Lewis for added royalty payments, 9/22, p.73
Demands follow steel settlement, four listed, 7/21, p.59
Electricals seek increase from GE, 8/11, p.48
GE increase approval, 12/29, p.36
Gray iron casting comm. see pass-through not reflecting wages, 9/22, p.84
Paychecks growing, 11/10, p.72
Productivity formula debated, 10/13, p.120
Salaried workers, U. S. Steel (non-union) up, 9/15, p.56
Steelworkers demands (See Steel-CIO)
Wage demands expected, 8/4, p.64
Wage drive: Fabricators next, 7/21, p.59
Wage increase cost to steel industry, 8/4, p.53

Warehousing, Distribution:
Adequate winter steelmaking stocks, 12/1, p.47
Field warehousing aid to depleted working capital, 9/1, p.64
Metalworking inventories climb, 12/8, p.75
Steel, how it will be distributed, 8/4, p.63
Steel, who will get and when, 8/11, p.55
Steel distribution, 1st quarter, 11/10, p.70
Steel warehouse supply encouraging, 11/10, p.71
Warehousemen prepare for buyers' market, 12/29, p.43
Steel distribution (see CMP)
See Inventory

Wastes:
Capturing dust in gases, 8/4, p.105
Collector system ups mill scale recovery, 10/20, p.102
Ion exchange — New hope for waste recovery, 10/20, p.96
Slag uses, AISI report, 12/15, p.132
Sulphur removed from gases, unit, 10/20, p.121
Wet dust recovery, 8/11, p.98

Watches:
Clock - thermostatic movement, ticks once-yearly, 9/15, p.138
Metals may replace jewels, 8/4, p.114

Water:
Research, saline converted for use, 11/10, p.76

Wayne University:
Computation lab., 11/3, p.132
Plating methods, 12/1, p.83

Weapons:
See Armament
See Arsenals
See Gunmaking

Weighing (see Scales)

Welding (Arc):
Bulldozer, welded throughout, 9/8, p.96
Engine-driven welder, IE, 12/1, p.141
Fabricating steel angle pieces by arc welding, 11/3, p.102
Heliarc torch for machine welding, IE, 11/24, p.144
Hidden arc cuts cost of stress relief in boom for dredge, 10/27, p.92
Inert-gas shielded electrode arc welding pays off, ENG, 12/29, p.71
Mill carts heliarc welded, 7/28, p.97
Selenium rectifier welder, IE, 12/1, p.134
Water-cooled Heliarc torch, IE, 10/20, p.134
Welds used in railroad car repair, 7/7, p.130

Welding (Gas):
Acetylene-air gas torch, IE, 7/28, p.115
Acetylene regulator, IE, 9/15, p.171
Welding heads for blowpipes, IE, 9/29, p.137

Welding (General):
Aluminum wire welding, 11/10, p.144
Combined welding and forming lower appliance costs, 11/24, p.104
Control assembly, IE, 8/25, p.130
Moly welds, cause of brittleness, 7/28, p.98
Radiography tests (see Radiography)
Tape holds flux, pic, 10/13, p.261
Weldaluminite, agent, no porosity, IE, 9/8, p.155
Welding doubles life of forging dies, 9/8, p.86
Welding gantry, IE, 9/1, p.118
Welding meets jet-engine challenge, 12/29, p.76
Welding rod simplifies, ENG, 10/6, p.75
Welds for stainless turbine repair, pic., 10/13, p.315
Welds used in railroad car repair, 7/7, p.130
See Electrodes

Welding (Resistance):
Aluminum fuel tanks all-welded, 7/28, p.81
Resistance welding applications increase (trend toward automaticity), 7/21, p.91
Seam welded girders part of huge bridge cranes, 9/29, p.86
Spot welder has electronic timer, IE, 11/3, p.151
Spot-welding, soldering tool, IE, 8/25, p.126
Titanium alloys flash welded easily, 7/14, p.84
Titanium alloys flash welded, ENG, 12/1, p.75

Weldments:
Weldments: Can sales equal last year's?, 10/27, p.46

Western Reserve University:
Plating methods explored, 12/1, p.82

Wilson, Charles E.:
Why I had to Resign as Defense Mobilizer, 10/20, p.57

Wind Tunnel: (See Research)

Wire:
Coil handling on lift trucks, 12/15, p.129
Coil handler, pic., 12/8, p.122
Florists wire, 12/15, p.146
High-tensile wire, foundation for deck of Pier 57, Hudson river, 8/25, p.112
Roller rebuilder develops wire, 9/8, p.114
Tocco wire inserts save copper threads, 11/10, p.150
Tums wire measuring unit, IE, 8/18, p.148
Welding applications on aluminum wire, 11/10, p.144
Wire rope life increased on hot metal cranes, 9/29, p.104

Wire Assn.:
Nonferrous wire div., 7/28, p.87

Wisconsin Mathematics Council:
Computors cited by Roach-GM, 11/24, p.129

X, Y, Z

X-Ray:
Atomic structure of solid matter tests, 12/15, p.152
Diffraction equip., pic., 12/8, p.134
Diffraction unit, IE, 8/4, p.148
Film cassette, IE, 10/13, p.343
Gages (see Instruments)
"Pint-size" unit speeds radiographic weld inspection, 11/10, p.103
Quartz angles test, 9/15, p.128
Sodium-uranium charted, 12/15, p.126
Westinghouse - Calif. unit, 9/15, p.136

Yugoslavia:
Investments open to U. S. firms, 9/1, p.60
Tech men visit U. S., 11/10, p.76

Zinc:
Prices drop, 12/29, p.35

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

COMPANY INDEX

A

ACF Brill Motors Co.:
Army trucks rebuilt, 11/3, p.68

A B C Die Casting Machine Co.:
Zinc die caster, IE, 12/1, p.148

Abitibi Power & Paper Co.:
Sulphur plant, B, 8/4, p.187

Abrasive Wet Blast Inc.:
Wet blaster finishes tools, IE, 8/4, p.143

Ace Wire Mills Inc.:
Gases-odor eliminated, 12/15, p.113

Acker Drill Co.:
Olds plant, B, 11/3, p.193

Acme Metal Products Co.:
Adds to plant, B, 11/3, p.196

Acme Saw & Mfg. Co.:
Gate-riser cutoff, IE, 10/27, p.116

Aero Safety Parallel:
Cradle supports, IE, 8/11, p.128

Adalet Mfg. Co.:
Cable rack, IE, 9/29, p.134

Adamas Carbide Co.:
To build, B, 11/24, p.171

Admiral Corp.:
Consolidates at Galesburg, B, 7/7, p.180; 10/27, p.143
Expands TV plant, 11/10, p.209

Aerojet Engineering Corp.:
Joins Italian firms, B, 8/25, p.166

Agel Detroit Co.:
Dust collector, IE, 7/21, p.138
Dust collector, IE, 8/11, p.124

Air Reduction Co. Inc.:
Precision lathes, pic., 11/24, p.173

Air Transport Mfg. Co.:
To expand, B, 8/4, p.188

Aircraft Armaments Inc.:
Adds plant, B, 11/3, p.194
To build, B, 12/22, p.124

Aircraft Marine Products Inc.:
Solderless terminals, IE, 11/10, p.108
Terminal crimping tool, IE, 12/15, p.175

Air Reduction Co.:
See Pure Carbon Co.

AiResearch Mfg. Co.:
Moves dept., B, 8/18, p.180
Phoenix plant, B, 11/10, p.210
Press forges aluminum fans, pic., 12/15, p.81

Airtex Products Inc.:
Builds factory, B, 12/22, p.126

Ajax Electric Co.:
Appoints, B, 7/7, p.180
Liquid flame heating, ENG, 11/24, p.97

Ajax Engineering Corp.:
Molten metal discharge unit, IE, 10/13, p.338
Stainless inserts and furnace design, 8/4, p.102

Ajax Iron Works:
Anniversary, B, 10/6, p.161

Alamo Iron Works:
Builds coal charging car, IE, 8/11, p.160

Alaska Copper & Brass Co.:
To build, B, 9/22, p.239

Algoma Steel Corp. Ltd.:
Coke oven order, B, 9/29, p.161
Rust contract, B, 7/14, p.175

Algonquin Chemical Co.:
Sold, B, 8/4, p.190

Alkon Products Corp.:
Precision air drill unit, IE, 7/21, p.134

All Steel Welded Truck Co.:
Knee-action caster, IE, 9/22, p.210

Allegheny Corp.:
Buys Nesco stock, B, 12/15, p.199

Allegheny Ludlum Steel Corp.:
Appoints agent, B, 7/7, p.180
Catalog, carbide alloys, 12/15, p.116
Closedown continues, 8/18, p.66
Renaissance in steelmaking methods, 10/27, p.94
Stretcher improves physical properties of stainless, 7/28, p.79
Ultrasonic descaling, ENG, 12/22, p.63

Allen Bradley Co.:
Canadian site, B, 10/13, p.372

Allied Chemical & Dye Corp.:
Barrett lab, B, 7/28, p.142
Coke ovens order, B, 11/17, p.195
Fiber plant award, B, 12/22, p.124

Allied Research Products Inc.:
Adds shop, B, 12/29, p.132

Allis-Chalmers Mfg. Co.:
Agents, B, 7/7, p.180; 9/8, p.184; 9/22, p.242; 9/29, p.163; 11/10, p.209; 12/15, p.201
Akron branch, B, 12/29, p.133
Bulldozer, 9/8, p.96
Buying LaPlant-Choate, B, 8/4, p.187
Buys Victor Electric, B, 8/18, p.178
Contactors, heavy-duty, IE, 11/10, p.169
Forms field group, B, 8/25, p.165
Metal stitchers, 8/18, p.102
Scraper, pic., 10/6, p.52
TVA pump-turbine award, 11/24, p.124
Tensile strength of iron test, 11/17, p.85
To build Kansas City, B, 7/21, p.180

Allis Hydraulic Products Inc.:
Organized, B, 7/28, p.141

Alloys & Products Inc.:
Licensed to make Everdur, B, 12/22, p.124

Altofer Bros. Co.:
Sold, B, 10/13, p.369

Aluminum Billets Inc.:
Plant new, 7/7, p.65

Aluminum Co. of America:
AFL contract, 7/14, p.48
Alaskan partner sought, 9/8, p.57
Aluminum brazing sheet for radiator studies, 7/7, p.96
Auto trim, ENG, 9/15, p.91
CIO negotiations resumed, 7/28, p.49
Contract to McGraw, B, 12/22, p.127
Engine blocks casting, 9/1, p.88
Expands Vancouver, B, 12/22, p.121
Expands Wash., B, 11/24, p.174
Heavy presses, Cleveland Wks., pic., 12/1, p.52
Jamestown plant closed, B, 7/21, p.175
Materials handling box, 10/13, p.249
Panel heating-cooling system, pic., 8/11, p.159
Plating iron added, 12/22, p.63
Power plants Quebec, pic., 12/15, p.116
Price increase sought, 7/21, p.52
Rolling mill Iowa, 9/15, p.66
Schloemann press turns out airframes, Cleveland Wks., 9/8, p.101
To build at Lancaster, Pa., 12/8, p.69
Welded heat exchanger tubes, 11/3, p.116

Aluminum Co. of Canada:
Peribonka yields power, 8/18, p.76

Aluminum Import Corp.:
Chicago office, B, 11/24, p.171
Cleveland office, B, 11/3, p.196
L. A. office, B, 12/15, p.201

Aluminum Ore Co.:
Expands, Ark., B, 12/8, p.185

Alvey Conveyor Mfg. Co.:
Conveyor centers material, IE, 9/29, p.115

Alvey-Ferguson Co.:
Washing machine-special, IE, 10/6, p.127

American Bosch Corp.:
Gas ignition system, 11/10, p.126

American Brake Shoe Co.:
Pomona plant, B, 9/8, p.179

American Broach & Machine Co.:
Pull-down broacher, IE, 10/27, p.111

American Cam Co.:
Machine is faster, 12/8, p.125

American Can Co.:
Cans tested, pic., 8/4, p.64
Forms div., B, 9/22, p.239
Supports research at Chicago University, B, 11/10, p.209
West Coast plant, B, 7/21, p.180

American Car & Foundry Co.:
Subcontract, 9/8, p.63
Worm gearing for plug valves, 9/1, p.97

American Cast Products Inc.:
Sold, B, 8/25, p.164

American Crucible Co.:
Crucibles of graphites, 11/10, p.148

American Cyanamid Co.:
Fork trucks shorter legs longer reach, 9/22, p.179

American Diamond Saw Sales:
Drum sander, IE, 9/29, p.118

American Electro Metal Corp.:
Material brazes moly rapidly, 7/14, p.85

American Forge Co.:
Moves office, B, 12/8, p.190

American-Fort Pitt Spring:
Sold, B, 8/25, p.165

American Gage & Machine Co.:
Deep throat press, IE, 10/27, p.104

American Hard Rubber Co.:
Rubber pump moves acids, IE, 9/22, p.204

American Institute of Electrical Engineers:
Productivity forecast, 10/13, p.270

American Instrument Co.:
Micromagnet tests aircraft header manifold, 12/1, p.113
Plant, Md., B, 12/22, p.121

American Locomotive Co.:
Movie, 8/25, p.99
Tanks for armored troops, pic., 8/4, p.67

American Lucoflex Inc.:
Ventilating fan of plastic, 11/3, p.130

American Machine & Foundry Co.:
Buys Leland Electric, B, 7/14, p.178
Clearing press, pic., 8/18, p.101
Expansion, Cheektowaga, B, 7/7, p.177; 11/3, p.196
Transducer div., B, 9/8, p.179

American Machine & Metals Inc.:
Agent named, fan div., B, 11/10, p.210

American Messer Corp.:
Messer units, 12/15, p.140

American Metaseal Corp.:
Casting defects repair, IE, 9/1, p.127

American Name Plate & Mfg. Co.:
Electronic detects friction noises, IE, 12/8, p.158

American National Dispensing Co.:
Agent named, B, 11/3, p.191

American Optical Co.:
Polarizing microscope, IE, 8/18, p.135

American Photocopy Equipment Co.:
Photocopy machine, IE, 11/24, p.136

American Pipe & Steel Co.:
To build, B, 8/25, p.165

American Platinum Works:
Plymetal shims cut brazing cost, 11/17, p.135

American Pulley Co.:
Conveyor pulleys, IE, 7/21, p.146
Speed reducer, IE, 12/29, p.95

American Pullmax Co. Inc.:
Portable flame cutting unit, IE, 8/4, p.144
Koping millers, 7/21, p.130

American Radiator & Standard Sanitary Corp.:
Plumbing sales outlook, 12/29, p.45

American Shipbuilding Co.:
Rebuilds Buffalo drydock, B, 8/11, p.159

American Silver Co.:
Custom mill handling, 12/8, p.94
High-nickel strip, 11/3, p.127
Silver brazing metals, 9/15, p.102

American Sintered Alloys Inc.:
Sold, B, 7/7, p.180

American Society of Mechanical Engineers:
Officers elected, B, 12/22, p.123

American Stamping Co.:
Die-storage system, 12/15, p.124
Moves, B, 7/14, p.177
Moves press, pic., 8/4, p.98

American Steel Foundries:
Adds building, Ind., 7/28, p.139
Billet descaling cabinet, IE, 10/13, p.328
Drawing and forming press, IE, 8/18, p.140
King Machine Tool anniversary, 7/21, p.61

American Tractor Corp.:
Crawler fork-lift, IE, 8/18, p.144

American Viscose Corp.:
Sponsors Knapp Mills to dev. clad-metal patents, 11/10, p.72

American Water Softener Co.:
Resins soften water, 7/7, p.120

American Wheelabrator Corp.:
Airless blaster, 12/1, p.113
Moves at N. Y., B, 12/15, p.202
Wet blaster, 11/17, p.126

American Wood Products Corp.:
Buys mill, B, 9/29, p.166

Code: B, *Briefs*, ENG, *Engineering and Production News*, IE, *Industrial Equipment*

Ampco Metal Inc.:
Appoints agents, B, 8/4, p.187; 8/11, p.162
Expands at Burbank, B, 10/20, p.171

Ampower Products Co.:
Spot welder has electronic timing, IE, 11/3, p.151

Anaconda Copper Mining Co.:
Plastic aids zinc stripping, pic., 9/8, p.125

Anaconda Wire & Cable Co.:
Aluminum cable, pic., 11/3, p.198
Expands West Coast mill, B, 9/8, p.179
Power system planning pays off in potential, 12/29, p.72

Anderson Co., V. D.:
Catalog, purifiers, 12/15, p.145
Downflow purifier, IE, 8/11, p.126

Anderson Copper & Brass Co.:
Dallas branch, B, 9/29, p.161

Andrews Tools & Machinery Co., Edward:
Moves, B, 12/22, p.121

Anthes Imperial Co. Ltd.:
Buys Great North Foundry, B, 9/29, p.161

Anthony Co., F. M.:
Crimping tool, IE, 10/6, p.121

Antiference Ltd.:
Toronto plant, B, 8/25, p.164

Apex Smelting Co.:
Organizes in Calif., B, 7/7, p.180
Silicon aluminum plant, B, 10/20, p.172
West Coast smelter for B. of M. process, 8/4, p.66

Apex Stamping Co.:
Conveyorized coating, 12/8, p.119
Conveyorized dipping, ENG, 10/6, p.75

Applied Research Laboratories:
Expands abroad, B, 12/1, p.178

Archer Inc., Fred C.:
Electrode stabilizer, IE, 7/14, p.138

Arcrods Corp.:
Adds to warehouse, B, 8/11, p.162

Arma Corp.:
Gyroscopic missile, 12/1, p.126

Armco Drainage & Metal Products Inc.:
Adds plant, B, 12/22, p.126
Pipe mill added, 12/15, p.116

Armco Mercantile Co.:
Magnifying spectacles, IE, 12/15, p.161

Armco Steel Corp.:
Blast furnace, Middletown, 11/10, p.62
Cold reduction mill, Ky., 12/22, p.28
Forms sales dept., B, 11/24, p.171
Hook joins economic mission, B, 11/3, p.191
Production loss, Ashland div., 8/18, p.66
Stainless for jet fuselage, ENG, 8/11, p.81
Training program, 7/14, p.66
Type 430 draws well, 12/8, p.140

Aronson Machine Co.:
Head and tailstock positioner, IE, 10/27, p.119

Arrow-Hart & Hegeman Electric Co.:
Pushbutton controls for oil, 7/28, p.82

Arrow Lock Corp.:
Sold, B, 10/27, p.148

Art-Mil Machine & Mfg. Inc.:
Battery-operated center finder, IE, 8/4, p.163

Assembly Products Inc.:
Simplytrol shows only meter, IE, 8/11, p.128
Twin Simplytrols, IE, 9/15, p.165

Associated Research Inc.:
Insulation tester, IE, 11/10, p.178

Associated Spring Corp.:
Gets new div., B, 10/27, p.143

Atco Electronics Corp.:
Insulating shells drawn from nylon strip, 8/18, p.116

Atkins & Co., E. C.:
Sold, B, 9/1, p.154

Atkomatic Valve Co.:
Booklet, solenoid valve applications, 12/29, p.85

Atlantic Refining Co.:
Cutting oils, 11/17, p.117

Atlantic Steel Co.:
Opens warehouse, B, 11/3, p.191

Atlantic Wire Co.:
Adds wing, B, 7/21, p.175

Atlas Press Co.:
Drill press, IE, 7/7, p.137

Atlas Steels Ltd.:
Continuous casting, 11/10, p.156

Atomite Co.:
Cold oil fogging, 11/10, p.129

Audio Tool & Engineering Ltd.:
Plant plans, B, 10/27, p.144

Auto Nailer Co.:
Automatic nailing machine, 10/13, p.280

Auto Stamping Co.:
Brochure, sheet metal facilities, 7/14, p.104

Automatic Sprinkler Corp. of America:
Adds to plant, B, 8/11, p.157

Automatic Transportation Co.:
Electric pallet truck, IE, 10/20, p.131
Transtacker, IE, 8/11, p.124
Truck, battery-powered, for Continental, 10/13, p.252

Autopoint Co.:
Sold, B, 11/17, p.196

Autotron Co.:
Photoelectric unit, IE, 8/18, p.148
Photoelectric unit, IE, 12/29, p.95

Avey Drilling Machine Co.:
Transfer crankshaft driller, 9/15, p.120

Avro Canada Ltd.:
Aircraft engine plant, B, 9/8, p.181

Axelson Mfg. Co.:
Acquired by Pressed Steel, 10/13, p.131
Pressed Steel may buy, B, 9/29, p.161

B

Babcock & Wilcox Co.:
Additive controls fuel oil residue, 7/21, p.120
Additive prevents boiler scale, ENG, 9/8, p.85
Boiler drums formed faster, 8/11, p.84
Continuous casting progress, 12/22, p.79
Denver office, B, 7/21, p.175
Div. moves office, B, 9/15, p.197
Expands in South, B, 10/13, p.372
McCullough addresses AISE, 11/10, p.134
Syracuse branch, B, 10/20, p.169

Bachmann, Eric R.:
Agent for German firm, 9/8, p.132

Bacon Industries Inc.:
Organized, B, 12/29, p.133

Baker Chemical Co., J. T.:
Plant construction, pic., 9/8, p.184
Sulphur from gas, recovery unit, 10/20, p.121

Baker Industrial Truck Co.:
Agent, B, 12/15, p.202

Baker Mfg. Co.:
Bulldozer welded throughout, 9/8, p.96

Baker-Raulang Co.:
Agent named, B, 8/4, p.189; 11/24, p.173
Electric fork truck makes U-turns, 10/27, p.104
Roll clamp attachment, IE, 9/1, p.111

Baker Steel & Tube Co.:
Expands, B, 11/24, p.176

Baldwin Belting Inc.:
Conveyor belt for inclines, IE, 8/11, p.129

Baldwin-Lima-Hamilton Corp.:
Agents named, B, 9/22, p.239
Car wheel lathe, pic., 11/3, p.122
Plant switcher-diesel, 9/15, p.114
Reorganizes sales setup, B, 12/22, p.121
Universal testing machine, IE, 10/13, p.334

Baltimore Aircoil Co. Inc.:
Sells fan div., B, 12/29, p.130

Barco Mfg. Co.:
Hydraulic swivel joints, IE, 7/7, p.150

Barium Steel Corp.:
Acquires East Coast Aeronautics, B, 7/21, p.178
OPS settles violation case, 10/13, p.120
Seamless tube mill, Phoenixville, 11/24, p.73

Barker Engineering Co.:
Bench-type miller, IE, 8/25, p.125

Barnes Co., W. O.:
Hand blade, IE, 8/18, p.151

Barrows Porcelain Enamel Co.:
Continuous porcelain enamel fusing furnaces, 8/11, p.97
Pipe coating, 7/7, p.98

Bart-Messing Corp.:
Expanding, B, 10/6, p.161

Bartlett Engineering Co.:
Machine for shell production, 10/13, p.278

Barvue Mines Ltd.:
Operates new property, B, 10/27, p.143

Bausch & Lomb Optical Co.:
Book, optical devices, 11/17, p.123
Magnifier, electrically lighted, IE, 9/22, p.198
Magnifier, self-illuminating, 10/20, p.116

Basic Tool Industries Inc.:
Organized, B, 11/3, p.193

Basic Refractories Inc.:
Furnace maintenance, copper industry, 7/28, p.92

Bates Expanded Steel Corp.:
Bought by investors, B, 10/20, p.169

Beaver Machine & Tool Co.:
Retooling, Oberdorfer Foundries consult, 11/10, p.98

Beck Products Corp.:
New name, B, 7/28, p.142

Beckman Instruments Inc.:
Adds plant, B, 12/29, p.129

Beckman & Whitley Inc.:
Camera-microsecond, 12/15, p.149

Bede Industrial Products Inc.:
Adds agents, B, 8/11, p.160

Bedford Tool & Forge Co.:
Appoints agent, B, 7/14, p.175

Beech Aircraft Corp.:
Wing section shipped, pic., 9/1, p.64

Behr-Manning Co.:
Centerless belt on grinder, 12/8, p.102
New project, B, 9/29, p.163
Surface grinder faces web sheets to thickness tolerance, 11/17, p.110
Waterproof sandpaper, IE, 9/15, p.168

Belke Mfg. Co.:
Meter charts plating deposit, IE, 9/29, p.124
Plating barrel, 3-pt suspension, IE, 11/3, p.157

Bell Aircraft Corp.:
Activates plant, B, 11/24, p.176
Coated abrasives for tapered aircraft skins, 8/25, p.98

Bell Refrigerator Co.:
Builds, B, 7/28, p.142

Bellows Co.:
Air powered work feeder, IE, 9/1, p.120
Buys Locke rights, B, 7/21, p.177
Drill press feed, IE, 8/4, p.152

Benchmaster Mfg. Co.:
Belt sander, IE, 12/22, p.90
Pedestal mount for miller, IE, 8/4, p.148

Benedict-Miller Inc.:
Heat treater for commercial cleaning, 9/15, p.142

Berkman Co., Louis:
Ohio River resumes, B, 8/18, p.175

Berkshire Chemicals Inc.:
Buys Innis Speiden, B, 10/27, p.144

Bethlehem Pacific Coast Steel Corp.:
Cargo ships, Maritime Adm., 11/17, p.50
Dredge for Alaskan project, pic., 9/15, p.200
Lays superfreighter keel, B, 12/22, p.126
Thermit welding a ship frame, pic., 8/25, p.65

Bethlehem Steel Co.:
Appeals Federal Court ruling (sale Williamsport Wire Rope), 10/20, p.54
Barge to carry molten sulphur, ENG, 10/6, p.75
Blast furnaces, 10/27, p.45
Blast furnace bell cast, pic., 12/29, p.132
Borrows $100 million for undisclosed purpose, 10/13, p.112
Chrome plating economies, 11/24, p.111
Earnings, 2nd quarter, 8/11, p.57
Exports '53, 11/10, p.62
Massive ingot will form 70-foot column, pic., 11/3, p.65

Bett-Mar Mfg. Co.:
Sheet metal saw, IE, 12/1, p.142

Bettinger Corp.:
Licensed by Trans Gel, 7/28, p.142

Bierman Iron & Metal Co. Inc.:
Opens dept., St. Louis, B, 7/28, p.139

Big Joe Mfg. Co.:
Hydraulic lift, IE, 9/8, p.148

Biggs Boiler Works Co.:
Vulcanizer, pic., 7/14, p.177

Binks Mfg. Co.:
Plastic protects nozzles, 12/8, p.120
Spray gun mixes paint, catalyst, 10/20, p.120
Spray paint school, 7/28, p.94
Surge control means even flow, IE, 7/7, p.143

Bishman Mfg. Co.:
Appoints agent, B, 8/25, p.165

Bitucote Products:
Floor patch kit, IE, 11/10, p.175

Bivans Corp.:
Organized, B, 10/27, p.145

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*

Black & Decker Mfg. Co.:
New plant, pic., 7/14, p.61

Black & Webster Inc.:
Electric staking machine, IE, 11/3, p.158

Blackmer Pump Co.:
Hand pump bulletin, 12/8, p.130

Blastcrete Equipment Co.:
Unit places cement materials, IE, 7/7, p.138

Blaw Knox Co.:
Merger with subsidiaries, B, 12/8, p.187
Reorganizes Tulsa office, B, 9/8, p.182

Blaw Knox Construction Co.:
Contract, Honeymead, B, 10/13, p.369

Bliss Co., E. W.:
Piercing press for shells, 7/21, p.116
Steam catapult for aircraft carriers, output, 9/22, p.106

Bliss & Laughlin Inc.:
Moves at Milwaukee, B, 7/28, p.144

Blockson Chemical Co.:
Unit to recover uranium, B, 9/29, p.161

Bloom Engineering Co. Inc.:
LP oil burner, IE, 12/1, p.142

Bobrick Mfg. Corp.:
Pressure switch, IE, 11/24, p.133

Boeing Airplane Co.:
Plastics cut tooling costs, ENG, 9/29, p.75

Bohn Aluminum & Brass Corp.:
Assigns export work, B, 8/4, p.187

Bonnot Co.:
Buys Hydromotor, B, 9/15, p.195

Borden Co.:
Phenolic core bonding resin, IE, 9/22, p.213

Border Tool & Die Ltd.:
Expands, B, 12/8, p.190

Borg Erickson Corp.:
Moves, B, 7/21, p.178

Borg Warner Corp.:
Balancer checks propeller shafts, 9/29, p.100
Buys Atkins, B, 9/1, p.154
Buys Reflectal, B, 7/21, p.178
Moves heat div., B, 8/25, p.166
Strike, wage demands, 9/1, p.67
Strike, effect on auto industry, 9/22, p.95

Borinstein Co., M. E.:
Organized, B, 12/1, p.175

Brabant Brass Mfg. Co.:
Ed English attends Carboloy training, 12/15, p.108

Bradley Edlund Corp.:
Sold, B, 9/22, p.242

Brainard Steel Co.:
Canadian div., B, 12/22, p.124

Brandt Tool & Die Co.:
Moves, B, 10/27, p.144

Branson Instruments Inc.:
Audigage micrometer, IE, 10/6, p.128
Nondestructive testing, pic., 10/1, p.159

Brickman Stamping Co.:
To build, B, 8/11, p.157

Bridgeport Brass Co.:
Cranes for lifting, pic., 10/20, p.174
Opens warehouse, B, 10/27, p.148

Bridgeport Safety Emery Wheel Co. Inc.:
Sold, B, 12/15, p.201

Briggs Mfg. Co.:
Apprentice upgrading, protest, 9/8, p.50

Brinnell Co.:
Press stop, IE, 8/25, p.134

Bristol Co.:
Diesel engine pyrometer, IE, 7/14, p.148
Round-chart recorder, IE, 9/29, p.128
Synchronous inverter, IE, 10/6, p.133

Bristol Motor Co. Inc.:
Control purchased, B, 7/28, p.141

British American Oil Co. Ltd.:
Adds to refinery, B, 11/17, p.195

Brockhouse & Co. Ltd., J.:
Builds, B, 7/14, p.178

Brookfield Inc.:
Tool holder, IE, 10/13, p.336

Brooks & Perkins Inc.:
Magnesium facilities, 7/14, p.128
Magnesium plate, price cut, 11/17, p.60

Brooks Oil International Co.:
Export agency formed, B, 9/15, p.197

Brown & Sharpe Mfg. Co.:
Carbide cutoff tool, IE, 9/15, p.171
Conveyors boost machine tool production, 11/3, p.94

Brown-Brockmeyer Co.:
Motor volt selector, IE, 7/14, p.146
Selector changes voltage, IE, 8/4, p.158

Brush Development Co.:
Surface comparator, IE, 9/1, p.112
Welding analyzer, IE, 9/15, p.158

Buda Co.:
Truck lift, diesel gasoline powered, IE, 7/21, p.144

Budd Co.:
Dedicates defense plant, B, 7/21, p.175

Buffalo Forge Co.:
Combined billet breaker, shear, IE, 10/13, p.340

Buhr Machine Tool Co.:
Machines jet bearings, 7/7, p.132
Safety control, 7/21, p.112

Burdett Oxygen Co.:
Cylinder charges costly on empty pile-ups, ENG, 11/24, p.97
To build, Youngstown, B, 9/29, p.161

Burklyn Co.:
Drill unit, IE, 11/17, p.153

Burrell Corp.:
Box and muffle furnaces, IE, 11/17, p.166

Burroughs Adding Machine Co.:
Computer added to lab, 11/3, p.132

Buschman Co., E. W.:
Cleated conveyor belt, portable design, 8/11, p.87

Byers Co., A. M.:
Pipe at sewage plant, pic., 9/15, p.197

C

Caine Steel Co.:
Warehouse, B, 7/14, p.175

California Cornice, Steel & Supply Co.:
Expands, B, 8/11, p.162

California Metal Enameling Co.:
Coating protects ladles, ENG, 10/6, p.75

Calumet & Hecla Consolidated Copper Co.:
Tube packaging, B, 9/8, p.184

Cal-Testing Machine Co.:
Tensile tester, IE, 7/28, p.110

Canada Machinery Corp. Ltd.:
Names U. S. agent, B, 9/1, p.154

Canadian Car & Foundry Co.:
Aircraft order, B, 10/3, p.367

Canadian Furnace Co. Ltd.:
Pig iron casting machine installed, B, 10/20, p.169

Canadian General Electric Co.:
Expansion plans, B, 8/11, p.160

Canadian Machinery & Industry Construction Ltd.:
Plant, St. John's, B, 9/1, p.156

Canefco Ltd.:
Subsidiary of, 11/10, p.212

Canton Containers Inc.:
Plastic covers machinery, 10/13, p.298

Carbide & Carbon Chemicals Co.:
Synthetic Ucon lubricant aids packing, 12/1, p.113

Carbomatic Corp.:
Moves, B, 9/1, p.151

Carborundum Co.:
Coated abrasives for tapered aircraft skins machining, 8/25, p.98
Fiberfrax, 8/11, p.94
Rubber wheels, IE, 12/22, p.97

Carborundum Metals Co. Inc.:
Plant, Newstead, N. Y., B, 9/8, p.182

Carlson Co.:
Spring coiling machine, IE, 9/8, p.139

Carlson Tool & Machine Co.:
Wire cutter, IE, 10/20, p.137

Carnes Co., W. R.:
Sump tank cleaning machine, IE, 10/27, p.116

Carpenter Steel Co.:
Mill expansion, B, 10/13, p.367

Carrier Corp.:
Business boom, 10/27, p.56

Carter Controls Inc.:
Organized, B, 11/24, p.171

Castle Industries Inc.:
Paper bond ups hammer work, 11/24, p.106

Caterpillar Tractor Co.:
Automatic brushing speeds gear cleaning, 8/4, p.94
Builds, B, 9/1, p.151; 11/24, p.176
Diesel engine, 9/15, p.137
Maintenance boom on tractor for overhead reaching, 7/14, p.114
Plant in East, 12/8, p.119
Plant lease, B, 10/27, p.143
Russian tractors studied, ENG, 7/21, p.87

Ceco Steel Products Corp.:
Buys site, B, 8/25, p.164

Cee-Bee Chemical Co.:
Adds plant, B, 10/6, p.163

Centinela Industrial Supply Co.:
Fixture clamp, IE, 11/24, p.133

Central Foundry Co.:
Presses (9), B, 11/24, p.171

Central Iron & Steel Co.:
OPS settled violation case, 10/13, p.120

Central Pennsylvania Castings Co.:
Sold, B, 7/14, p.177

Cerium Metals Corp.:
Agents named, B, 11/24, p.171

Cessna Aircraft Co.:
Exhaust gas powers propeller, 12/8, p.119
New plant, B, 7/7, p.177

Chambersburg Engineering Co.:
Impacter forges in mid-air, 11/3, p.66
Impacter forges jet blades, 12/1, p.89

Champion Implement Corp.:
Spray gun without compressor, IE, 9/8, p.143

Champion Rivet Co.:
Life with Champion, 8/18, p.75

Chandeysson Electric Co.:
Motor generator line, IE, 12/15, p.168

Charter Metals Co.:
Sold, B, 12/1, p.177

Chase Brass & Copper Co.:
Builds, B, 7/28, p.142
Copper-base alloy, 11/3, p.135
Copper extrusion machine, pic., 9/8, p.99
Phosnic bronze, 11/3, p.119
Reorganizes research program, B, 10/27, p.145
Shear-turnover unit joins cropping, inspection, 7/21, p.90
Tellurium aids copper, 7/28, p.94
Ventilated tube bus, 11/17, p.117

Chicago Metals Co.:
Merges, B, 11/24, p.174

Chicago Pneumatic Tool Co.:
Builds Ft. Worth plant, B, 7/21, p.175

Chicago Rivet & Machine Co.:
Rivet selector, 7/14, p.124

Chicago, Rock Island & Pacific Railroad:
Servicing shop, B, 7/21, p.175

Chicago Rubber Co.:
Contact wheels, 8/25, p.95

Chicago Wheel & Mfg. Co.:
Grinding wheel - miniature, 9/15, p.117

Chiksan Co.:
Canadian sub., B, 12/1, p.180
Milwaukee branch, B, 12/8, p.187

Chisholm-Moore Hoist Corp.:
Pushbutton control chain hoist, IE, 8/4, p.150

Chromium Corp. of America:
Chromium plating pays off for steel mills, 11/24, p.108

Chrysler Corp.:
Automation, reasons for, 11/10, p.83
DeSoto, air conditioning, 12/29, p.57
DeSoto '53, 9/22, p.96
DeSoto changes, 10/27, p.57
DeSoto unveiling, 11/10, p.84
DeSoto, Woolson president, 10/6, p.62
Diamond salvage, pic., 8/4, p.75
Dodge '53, pic., 10/27, p.57 and 58
Dodge automatic V-8 engines, 12/15, p.122
Dodge, how a new model is born, 11/24, p.83
Dodge crankshaft forging, 9/29, p.78
Electron microscope, 7/21, p.109
Foundry transferred from Ford, 8/25, p.78
Lab standards in testing, pic., 8/18, p.100
Lab, West Coast, B, 10/27, p.145
Model '53, 12/1, p.62
Moves engine div., 8/4, p.76; B, 8/11, p.160
Packaging studied, 10/20, p.76
Plastic dies draw truck panels, 9/15, p.92
Plymouth assembly line, pic., 8/11, p.70
Plymouth price cuts, 11/24, p.62
Prices drop, 11/3, p.78
Steering gear test, 7/28, p.62
Tank engines, pic., 12/22, p.49
Tank unveiled, 7/7, p.66
Torque converter system new, 7/14, p.69
Vice presidents, 9/29, p.62

Ciba Co.:
Bonding line, 10/13, p.264

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Cincinnati Milling Machine Co.:
Rake angle influence on metal cutting, paper presented, 8/25, p.99

Cincinnati Shaper Co.:
Press brake for shallow draw work, IE, 11/3, p.154

Clair Mfg. Co.:
Surface finishing machine, IE, 9/22, p.197

Clark Equipment Co.:
Agents, 10/27, p.148; 12/1, p.178; 12/15, p.204
Attachment slips over forks, 8/25, p.100
High-tiering truck, IE, 12/29, p.98
Lift truck, increased power, IE, 8/25, p.134
Lift trucks — rider, walker, IE, 12/8, p.154
Lift truck, stand-up, IE, 11/17, p.156
Lift truck, Twin-tilt cylinders, IE, 10/20, p.137
Snow plow attach., 12/8, p.128

Clark-Hopkins Equipment Corp.:
Sheet separator, 7/14, p.112

Claus Mfg. Co.:
Stainless polishing, 10/13, p.292

Clayton Mfg. Co.:
Cleaner discharges detergent spray, IE, 11/3, p.151

Cleaver-Brooks Co.:
Acquires plant, B, 8/11, p.159

Cleveland-Cliffs Iron Co.:
Explores for iron ore deposits in northern Canada, 9/15, p.67

Cleveland Graphite Bronze Co.:
Changes name, B, 11/3, p.191
Clevite Service, B, 7/28, p.139

Cleveland Metal Cleaning Co.:
Porcelain enamel refinished, fused-caustic process, 12/1, p.86

Cleveland Process Co.:
Immersion heater, IE, 9/22, p.198

Cleveland Punch & Shear Works:
Toggle press, IE, 10/20, p.136

Cleveland Vibrator Co.:
Air vibrator for bench work, IE, 9/1, p.124

Clinton Machine Co.:
Sold, B, 12/22, p.121

Cockshutt Aircraft Ltd.:
Div. moved, B, 11/24, p.171

Cold Metal Products Co.:
Ind. branch, B, 12/15, p.204

Coleman-Pettersen Corp.:
Merges with Fanner, B, 9/29, p.163

Colonial Alloys Co.:
Philton represents, B, 12/22, p.121

Colonial Broach Co.:
Broach cuts blind slots, 9/8, p.108
Crush grinding, 9/1, p.103
Press speeds valve assembly, 10/13, p.321

Colorado Fuel & Iron Corp.:
Buys Roebling, 12/15, p.80
Seamless mill soon, 12/22, p.28

Colton Co., Arthur:
Moves, B, 9/15, p.195

Columbia Electric Mfg. Co.:
Volt ammeter, IE, 7/7, p.153

Columbia Machinery & Engineering Corp.:
Buys firms, B, 12/15, p.201

Columbia Metal Stamping Co.:
Faster handling, drop bottom boxes, etc., 12/1, p.110

Columbia Technical Corp.:
Portable winding tester, IE, 7/21, p.143

Columbia Transportation Co.:
Ore ships built, B, 10/20, p.169

Combustion Control Corp.:
Smoke indicator, photoelectric, IE, 11/10, p.170

Commander Mfg. Co.:
Tapping chuck, IE, 9/8, p.152

Communication Measurements Laboratory Inc.:
Moves, B, 11/10, p.209

Conforming Matrix Corp.:
Mask washer, IE, 8/25, p.128

Conneaut Plating Industries:
Sold, B, 12/15, p.204

Connor Spring Mfg. Co.:
Moves, B, 9/1, p.154

Connors & Davis Sales Corp.:
Vise, IE, 11/24, p.138

Consolidated Chemical Industries:
Molten sulphur shipped by barge, ENG, 10/6, p.75

Consolidated Edison Co.:
Cable under N. Y. harbor, 10/6, p.166
Giant stator for East river, GE handling, 8/25, p.102

Consolidated Engineering Corp.:
Bridge balance instrument, IE, 9/15, p.155
CEC offices, B, 10/6, p.163
Expands, B, 12/1, p.177
Leak detector, ENG, 12/29, p.71
Stepping switch, E, 12/15, p.172
Pressure transducer, IE, 11/17, p.164

Consolidated Industries Inc.:
Adds furnaces, B, 12/22, p.124
Truck carries long objects, IE, 9/8, p.143

Consolidated Mining & Smelting Co. of Canada:
Indium metal reported, 12/8, p.98

Consolidated Vultee Aircraft Corp.:
Convair assembly, pic., 9/8, p.63
Interceptor contract, 12/15, p.67
Rolled T-sections cut part costs, 12/8, p.104

Consolidated Welding Supply:
GE distribution, B, 11/10, p.212

Consumers Steel & Supply Co.:
Power output stabilized by Nordburg engine, 9/8, p.94

Continental Can Co.:
Buys site, B, 10/20, p.171

Continental Foundry & Machine Co.:
Consolidates, B, 7/7, p.179
Copes-Vulcan agents, B, 9/15, p.198

Continental Gin Machinery Co.:
Mechanized materials handling, Ala. plant, 10/13, p.252

Coolerator Co.:
Opens enameling plant, B, 8/25, p.164

Cooley Electric Mfg. Corp.:
Bench-type furnace, IE, 7/7, p.137
Heat treating furnaces, IE, 11/3, p.152

Cooper Alloy Foundry Co.:
Spray gun, IE, 10/6, p.122

Cooper-Bessemer Corp.:
Booklets, 11/17, p.117; 12/1, p.101
Export firms, B, 12/22, p.121
Horizontal machine, pic., 12/8, p.67

Copperweld Steel Co.:
Brake drum for busses, 7/7, p.54
Brake drum, for trucks, ENG, 7/28, p.75
Buying Ohio Seamless Tube Co., 11/24, p.73

Cory Corp.:
Buys Autopoint, B, 11/17, p.196
Consolidates sales, B, 10/20, p.169
Control stands for Lockheed, pic., 7/28, p.52
Leases plant, B, 10/27, p.144

Corry-Jamestown Mfg. Co.:
Completes plant, B, 7/28, p.142

Cosa Corp.:
Heid copying lathe marketed, 7/14, p.110

Couse Mfg. Co.:
SDPA loan, B, 12/8, p.188

Cox & Stevens Aircraft Corp.:
Electronic scale, 11/10, p.156

Crane Co.:
Expansion and diversification plans, 9/22, p.85
Titanium production plant, 10/20, p.63

Crane & Engineering Co.:
Pivoted-blade shear, IE, 12/1, p.138

Crawford Fitting Co.:
Heat exchanger tee, IE, 9/29, p.131

Creamer & Dunlop:
Pickling vats heated by submerged burner, 12/15, p.114

Cribben & Sexton Co.:
Single-port pilot for gas burner, 10/13, p.290

Crippen Research & Development Laboratories, Raymond Co.:
Aluminum coatings, IE, 9/1, p.124

Crosman Arms Co.:
Buys factory, B, 12/1, p.180

Cross Co.:
Tool works cylinder blocks, 7/14, p.117
Tool works tank housings, 9/8, p.104
Transformatic moved to Ford, 9/1, p.68
Transfer-matic machine, 11/3, p.102; 11/10, p.133

Crown Casting Associates:
Shell making experimental machine, 12/22, p.77

Crown Rheostat & Supply Co.:
Ceramic as tubing media, 12/8, p.117

Crozier Machine Tool Co.:
Extractor works in blind holes, 7/21, p.130

Crucible Steel Co. of America:
Aircraft casting paper, 11/17, p.120
Coke ovens new, plans blast furnace, 11/24, p.72
Hall's photographs sell safety program, 8/18, p.96
Steel cuts alloy requirements, 11/17, p.126
Testing service, 8/4, p.130

Cunningham Co., M. E.:
Billet marker, IE, 10/20, p.136
Buys Pittsburgh plant, B, 8/18, p.180

Curtin & Co., W. H.:
Birmingham office, B, 11/17, p.198

Curtin-Herbert Co.:
Surface grinder faces web sheets to thickness tolerance, 11/17, p.110

Curtis Pneumatic Machinery:
Two-stage air compressor, IE, 8/25, p.125

Curtiss-Wright Corp.:
Project approved, B, 7/14, p.178

Cushman Chuck Co.:
Turbine wheel chucks, IE, 12/29, p.98

Cuyahoga Industries:
Die caster holds pressure, IE, 9/15, p.155

D

Dage Electronics Corp.:
TV camera, portable, 12/15, p.152

Daly (Condensers) Ltd.:
Plant, B, 7/28, p.141

Daniel Construction Co.:
Fiber plant, B, 12/22, p.124

Danly Machine Specialties Inc.:
Variable-speed press, 10/13, p.303

Dasco Chemical Co.:
Plastic floor resurfacer, IE, 8/11, p.133

Davey Compressor Co.:
Forms export sub., B, 7/21, p.175

Davies Supply & Mfg. Co.:
Moves shop, B, 9/15, p.198

Davis Metal Scraper Co.:
Sold, 10/6, p.91

Day Co.:
Dust filter booklet, 10/20, p.102

Dayton Rogers Mfg. Co.:
Anniversary, B, 11/3, p.193
Sheet slide rule, 11/3, p.128

Deere & Co., John:
Plow finishing, pic., 12/8, p.69

De Havilland Aircraft of Canada Ltd.:
Builds Canadian plant, B, 8/11, p.160

Delanium Carbon Corp.:
Opens plant, B, 11/24, p.176

Delaware River Steel Corp.:
New Castle, certificate issued, 8/11, p.58

Delaware Tool Steel Corp.:
Forging furnace, IE, 8/11, p.119
Forging furnace, IE, 10/27, p.112

Delron Co. Inc.:
License, B, 8/25, p.165

Delta-Star Electric Co.:
Porter div., IE, 12/15, p.199

Denison Engineering Co.:
Calif. branch, B, 9/15, p.198
Chicago branch, B, 10/20, p.174
Houston branch, B, 12/29, p.130
Multipress forms, blanks microphone diaphragms, 8/25, p.142
Press touch control, 11/3, p.144

Dental Mfg. Co.:
Airabrasive cuts metal, 7/14, p.112

Detrex Corp.:
Degreaser, IE, 11/17, p.154
Precleaner, IE, 7/14, p.151

Detroit Edison Co.:
Strike, tape recorder gives info, 11/3, p.56

Detroit Harvester Co.:
Buys Clinton Machine, B, 12/22, p.121

Detroit Milling Cutter Co.:
Indexable lathe, Futurblade, IE, 8/4, p.160
Reversible wheel adaptor, IE, 8/11, p.130
Side milling cutter, IE, 9/15, p.168

Detroit Tap & Thread Co.:
Booklet, thread gage prices, 8/4, p.128

Dillon & Co. Inc., W. C.:
Indicating dynamometer, IE, 9/29, p.134
Moves, B, 10/27, p.145
Thermometer with hand grip, IE, 11/24, p.142

Diversified Metal Products Co.:
Centerless grinder, IE, 8/11, p.121
Crush dressing of grinding wheels, Metal Show exhibit, 10/13, p.261

Code: B—*Briefs*, ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Diversey Corp.:
Etching type cleaner, IE, 8/11, p.129

Dixon Automatic Tool Co.:
Coil banding, pic., 12/8, p.122

De Vilbiss Co.:
Air transformer, IE, 9/8, p.142
Spray gun, IE, 7/14, p.151
Spray School, 12/15, p.135

De Vlieg Microbore Co.:
Agent, B, 11/17, p.196

DeWalt Inc.:
Metal cutter convertible, IE, 9/8, p.139

Dewey & Almy Chemical Co.:
Compound squirted gasket, ENG, 10/20, p.89

Dial Screw Products Co. Inc.:
Expands, B, 7/21, p.180

Diamond Alkali Co.:
Porcelain surfaces refinished, fused catalytic process, 12/1, p.86

Diamond Machine Co.:
Sold, B, 12/15, p.201

Diamond Machine Tool Co.:
Horn press, IE, 12/15, p.137
L. A. branch, B, 12/22, p.123
Punch press, action, IE, 9/29, p.128

Dice Co., J. W.:
Cyclograph nondestructive test, 10/13, p.160

Die Supply Sales Co.:
Organized, B, 10/27, p.145

Diesel Power Inc.:
Expands, B, 11/17, p.195

DoAll Co.:
Band saw, IE, 12/15, p.161
Catalog twist drills, 12/8, p.131
Gaging setups system speeds, 11/24, p.98

Dobeckmun Co.:
L. A. storage, B, 11/10, p.210

Dodge Mfg. Corp.:
Pillow blocks, IE, 9/8, p.152
Pillow blocks, IE, 10/6, p.121
Variable speed drive, 10/13, p.127

Doehler-Jarvis Corp.:
Merger planned, 12/22, p.37

Dorpke Mfg. Co.:
Basket handling, pic., 10/13, p.260

Dole Valve Co.:
Stainless on copper for soda fountain dispensers, 7/7, p.93

Dominion Bridge Co.:
Buys site, B, 8/11, p.157

Dominion Wheel & Foundries Ltd.:
Adds plant, B, 9/1, p.154

Douglas Aircraft Corp.:
Aircraft wrecked to study safety, ENG, 9/29, p.75
Air Freight plane orders, 12/29, p.16
Driller for guided missile output, 9/8, p.114
Machine tool program, 12/22, p.37
Plans expansion, B, 7/7, p.179
Shear cuts 24-ft plate, 8/4, p.98

Dow Chemical International Ltd.:
Licenses United Saran, B, 12/1, p.175

Downingtown Iron Works:
Sold, B, 10/13, p.369

Drafting Equipment Co.:
Protractor, IE, 11/10, p.170

Dravo Corp.:
Atomic gun assembly, 10/11, p.121
Cranes for Navy, pic., 9/22, p.242
Steel bridging reinforces floors, 11/10, p.111
Weirton harbor award, B, 8/25, p.164

Drayer-Hanson Inc.:
Defense contract, B, 7/28, p.139

Dresser Equipment Co.:
Ideal agent, B, 10/27, p.148

Drew & Co., E. F.:
Booklet, 11/3, p.128

Drillunit Inc.:
Drilling unit, IE, 10/20, p.142

Driver-Harris Co.:
Wire roller, IE, 7/7, p.138

Du-Lite Chemical Corp.:
Moves, B, 7/14, p.178

Dupont de Nemours & Co. Inc., E. I.:
Air pollution control expenditures, 9/8, p.128
Anniversary, 7/21, p.61
Titanium expansion, DMPA aid, 8/4, p.66

Durant Mfg. Co.:
Predetermined counters, IE, 11/24, p.136

Dzus Fastener Co.:
Fasteners for light castings, 12/8, p.125

E

Eagle Chemical Co.:
Adds plant, B, 11/3, p.193

East Coast Aeronautics Inc.:
Barium subsidiary, B, 7/21, p.178

East Ohio Gas Co.:
Compressor station, pic., 11/3, p.75

Eastern Brass & Copper Co.:
Expands facilities, B, 11/17, p.195
Grapple line, IE, 11/10, p.170
Sifter, pic., 12/8, p.190

Eastern Foundry Supplies Inc.:
Merger, B, 11/17, p.196

Eastern Tool Co.:
Carbide indicator points, IE, 12/22, p.97
Diamond wheel dressing machine, IE, 8/11, p.146

Eastman Kodak Co.:
Film takes pictures without light, 9/22, p.174
Microfilmer files records, IE, 9/29, p.115
Photomicrograph data book, 11/10, p.139

Easy Washing Machine Co.:
Induction heater, pic., 9/8, p.119

Eaton Mfg. Co.:
Appoints agent, B, 7/7, p.177
Builds in Marion, B, 7/28, p.141
Expands pump div., B, 10/6, p.161

Eberhardt-Denver Co.:
Worm gear speed reducer hp doubled, IE, 11/17, p.153

Ecko Products Co.:
Subcontract, 9/8, p.85

Eclipse Fuel Engineering Co.:
Canadian subsidiary, B, 12/8, p.187

Eclipse Lawn Mower Co.:
Blast cleaning unit, 7/7, p.96

Eco Engineering Co.:
Stainless pumps for acids, 12/1, p.86

Economast Inc.:
Steel molding machine, 12/22, p.77

Economweld Co.:
Tubular steel pallet, IE, 12/1, p.136

Edgewater Steel Co.:
Steel jaws lift tires, B, 10/20, p.172

Edwards Co., E. H.:
Moves at San Francisco, B, 8/11, p.157

Ekco Products Co.:
To mfg. in Holland, B, 7/14, p.175

Ekstrom, Carlson & Co.:
Horn Router, IE, 8/25, p.125

Elastic Stop Nut Corp. of America:
Floating anchor aids aircraft assembly, 8/25, p.115
Miniature stop nuts, 12/22, p.90

Eldorado Mining & Refining Ltd.:
Transfers div., B, 9/8, p.182

Electric Controller & Mfg. Co.:
Branch office, Md., B, 11/10, p.209

Electric Furnace Co.:
Canefco Ltd. subsidiary, B, 11/10, p.212

Electric Indicators Co.:
Reorganizes, B, 9/29, p.161

Electric Machinery Mfg. Co.:
Fuses de-energized with gang-operated disconnect, 11/24, p.133

Electric Regulator Corp.:
Builds plant, B, 9/29, p.166

Electric Storage Battery Co.:
Batteries in plastic containers, IE, 12/8, p.156

Electro Arc Mfg. Co.:
Broken tap and drill remover, IE, 10/13, p.328

Electro-Plating Service Inc.:
Sold, B, 11/10, p.209

Electronic Computer Corp.:
Giant brain computer, ENG, 8/18, p.93

Electrozing Co.:
Reorganized, B, 10/13, p.369

Elizabeth Iron Works Inc.:
Tiering pallet, IE, 7/21, p.116

Elliott Co.:
High speed reduction gears, IE, 10/13, p.333

Elmes Engineering Div.:
See American Steel Foundry

Elox Corp.:
Electric hand drills, IE, 10/27, p.104

Elstrom, Carlson & Co.:
Router-remote control, 12/15, p.126

Elwell-Parker Electric Co.:
Fork scoop attachment, IE, 7/28, p.111
Screw adjusting forks, IE, 12/8, p.149

Emerson Electric Mfg. Co.:
Buys tool firm, B, 11/10, p.212

Emhart Mfg. Co.:
Punch press feeder, V & O, IE, 10/27, p.104

Empire Stove & Furnace Co.:
Agreement with Perfection, B, 11/10, p.210

Enco Mfg. Co.:
Portable demagnetizer, IE, 10/13, p.338

Engineered Equipment Co.:
Barrel pump, IE, 10/27, p.107

Engineering Corp. of America:
New name, B, 11/3, p.194

Engineering Research & Mfg. Co.:
Changes hands, B, 10/27, p.145

Engis Equipment Co.:
Direct-reading projector reflects squareness, IE, 12/1, p.131
Telescope magnification checks tool alignment, IE, 10/27, p.112

Enthone Inc.:
Electrolytic alkaline descaler, 11/17, p.148
Licenses West Coast firm, B, 7/14, p.180
Oxides removed without acid, 12/1, p.116
Tin-lead stripper, IE, 8/4, p.158

Entwistle Co., James L.:
Track-type pullout, IE, 12/22, p.90

Equipment Mfg. Inc.:
Portable stacking racks, IE, 9/22, p.208

Equipoise Controls Inc.:
Gage snubbers, IE, 7/7, p.148

Erie Foundry Co.:
Forging hammer shipped, 12/22, p.63

Erie Iron & Supply Corp.:
Buys castings firm, B, 7/14, p.177
Buys Hoist & Pulley, B, 10/13, p.369

Errington Mechanical Laboratory Inc.:
Tapping chuck, IE, 8/4, p.158
Universal joint drilling head, IE, 10/27, p.112

Esbenson Co., Iver J.:
Torch guiding machine, IE, 9/8, p.140

Esco Engineering Corp.:
Appoints agent, B, 7/28, p.144

Ettco Tool Co. Inc.:
Drilling-tapping machine, IE, 9/8, p.148

Eutectic Welding Alloy Corp.:
Bonding agent, 12/8, p.131
Bonding line, Ciba license, 10/13, p.264
Book, tool salvage welding, 7/28, p.92
Railroad welding service, B, 8/4, p.190
Rod and special coating, 9/8, p.114
Solder paste painted on, 12/29, p.90

Evans Co., Roberg G.:
Forms firm, B, 7/21, p.180

Eveready Brik-Saw Co.:
Masonry cutter, IE, 11/17, p.153

Exacto Mfg. Co.:
Sold, B, 8/25, p.166

Ex-Cell-O Corp.:
Precision thread grinder, IE, 8/4, p.154
Stub drill chuck, IE, 11/24, p.135
Vertical contouring machine, IE, 11/17, p.160

Exide Batteries of Canada Ltd.:
Buys site, B, 7/28, p.139

F

Ft. Worth Steel & Machinery Co.:
Moves at L. A., B, 7/7, p.180

Factory Tools Inc.:
Coolant pump motor assembly, IE, 10/27, p.119

Fageol Products Co.:
Wire thread inserts, advantages, 11/3, p.105

Fairbanks Co.:
Platform hand truck, IE, 9/8, p.140

Fairbanks, Morse & Co.:
Diesel engine, B, 12/8, p.185
Dual-fuel engine, pic., 12/22, p.123
Engine shipped as one unit, 10/13, p.227
Ul-fin licenses, B, 11/17, p.195

Fairfield Mfg. Co.:
Airless blaster performs both cleaning and peening, 7/21, p.115

Code: B, *Briefs*; ENG, *Engineering and Production News*; IE, *Industrial Equipment*

Falconbridge Nickel Mines Ltd.:
Export-Import Bank loan, 11/17, p.50

Famco Machine Co.:
Power press, IE, 7/21, p.138

Fanner Metal Products Co.:
Merges, B, 9/29, p.163
Nails corrosion coated, ENG, 12/29, p.71

Fansteel Metallurgical Corp.:
Ventilated contacts, 9/8, p.111

Farrar & Trefts Inc.:
Tapes seam before welding, 10/13, p.261

Farmers Engineering & Mfg. Co.:
Audiophone, IE, 11/10, p.175
Trolleyphone, IE, 8/4, p.160

Fauver Co. Inc., J. N.:
Transfer unit cleans hydraulic oils, IE, 7/28, p.107

Federal Electric Products Co.:
Leases switchgear plant, B, 10/27, p.143
To build, B, 12/22, p.124

Federal Press Co.:
Booklet, 12/15, p.112

Federal Products Corp.:
Gage measures auto-aircraft pistons, IE, 11/10, p.169
Opens branch, B, 10/27, p.144

Felt & Tarrant:
Chilled salts protect linings, ENG, 11/10, p.97

Felters Co.:
Appoints agent, B, 7/7, p.180

Fenway Machine Sales Co. Inc.:
Portable nibbler, IE, 10/13, p.339

Ferranti Electric Ltd.:
Builds, B, 9/29, p.166

Ferro Corp.:
Japanese subsidiary, B, 7/7, p.179

Ferry Cap & Set Screw Co.:
Buys plant space, B, 12/15, p.199

Fidelity Chemical Products Corp.:
Gang-operated disconnect de-energizes fuses, IE, 11/24, p.133

Filtrol Corp.:
To build, B, 9/1, p.156
To build, B, 12/15, p.199

Firestone Tire & Rubber Co.:
Tank parts for Patton T-48, 9/8, p.65
Tire-tubeless monster, 9/15, p.126
Walnut shells-cleaners, pic., 12/1, p.180

Fisher Scientific Co.:
Instrument solution tester, IE, 8/4, p.154
Lab planning kit, B, 9/22, p.239

Flexrock Co.:
Flinteruse stops floor sanding, IE, 9/29, p.137
Floor resurfacer, IE, 10/20, p.136

Flint Steel Corp.:
Adds warehouse, B, 7/21, p.177

Flintkote Co.:
Thermostats check tank level, 12/8, p.128

Float-Lock Corp.:
Safety vise, IE, 9/8, p.139

Fluid Controls Inc.:
Moves, B, 11/10, p.209

Flxible Co.:
Co-op with Twin Coach, B, 9/15, p.195

Follansbee Steel Corp.:
Exhibit, metalworking machines, B, 11/17, p.196
RFC loan sought, 12/22, p.28

Food Machinery & Chemical Corp.:
Peerless agent, B, 10/27, p.145
Turbine vane pumps, IE, 7/14, p.136

Foote Mineral Co.:
Foundry grade zircon sand, IE, 7/28, p.115
Lithium plant, B, 9/1, p.156

Ford Motor Co.:
Appointments purchasing, 12/22, p.50
Automatic transmission - trucks, test, 11/17, p.71
Buffalo automation, 12/15, p.90
Canadian expansion, B, 12/8, p.185
Cleveland foundry, 12/1, p.51
Frauenthal grinders for Patton tanks, 11/10, p.106
Half production maintained, 7/28, p.62
Industrial movies, 7/14, p.59
Jet engine test building plan, B, 11/17, p.198
Lincoln plant moved, 8/25, p.78
Machine tool from Cross, 9/1, p.68
NPA refuses increase, 7/28, p.61
Price line holds, 12/15, p.90
Sales-profits figures denied, 12/22, p.50
Service parts depot, B, 9/8, p.181
Steering system, 11/10, p.84
Turbine repaired, pic., 10/13, p.315
Turbo-jet J-57 order, 12/29, p.58

Forker Corp.:
Ohio Tramwell agents, B, 10/6, p.161

Foster Wheeler Corp.:
To build, B, 10/6, p.161
Studies reactors for private industry, 10/6, p.48

Foxboro Co.:
Adds to training staff, B, 7/14, p.175
Buys Dallas site, B, 12/8, p.187
Fly ash measured, 11/10, p.152
Oven-infrared bakes paint on meter parts, 10/20, p.122
Temperature controller, 11/17, p.126

Franell Inc.:
Formed, B, 9/1, p.154

Frasse & Co., A.:
Chart covers alloy steels, 9/15, p.120

Frauenthal Inc., A. Harold:
Sold, B, 7/21, p.175

Fray Machine Tool Co.:
Export div., B, 8/25, p.165

Freeman Coal Mining Corp.:
Mine hoist, pic., 7/21, p.65

Freeway Washer & Stamping Co.:
Appoints agent, B, 8/11, p.157

Frick Co.:
Anniversary, B, 12/1, p.178

Frigidaire Products of Canada Ltd.:
Opens plant, B, 11/10, p.212

Frontier Oil Refining Corp.:
Compressors 600-hp installed, 9/15, p.131

Fruehauf Trailer Co.:
Magnesium trailer hauls radar anti-aircraft system, 11/10, p.129
Opens branches, B, 9/8, p.179

G

Gabriel Rolled Steel Products Co.:
Iron works opened, B, 12/29, p.129

Gaines-Collins Corp.:
Automatic chuck, IE, 12/22, p.89
Portable pipe threader, IE, 10/20, p.136

Galion Allsteel Body Co.:
End loader, IE, 12/8, p.154
Hydraulic hoist, IE, 12/29, p.95
Side dump trucks, 7/14, p.90

Galvanic Products Corp.:
Completes plant, B, 7/21, p.178

Galvanite Corp.:
Galvanite compound protects surfaces, 7/21, p.128

Gar Wood Industries Inc.:
National Lift moves, B, 11/10, p.210

Garvin Bros. Inc.:
Power-torque tools larger, IE, 10/6, p.127

Gas Pipeline Corp.:
Pipeline under N. Y. harbor, pic., 10/6, p.166

Gasway Corp.:
Rollacoat finisher, IE, 7/14, p.144

Gates Rubber Co.:
Control system eliminates human error, 8/11, p.87

Gay-Lee Co.:
Carbide cutoff tool, IE, 9/15, p.171

General Controls Co.:
Electronic timer, IE, 9/8, p.150
Limit switch, IE, 12/29, p.95
Skokie plant added, 10/6, p.51
Skokie plant opened, B, 10/13, p.372

General Detroit Corp.:
Deep hole driller, IE, 7/14, p.141
Fire extinguisher cart, IE, 10/20, p.140

General Die Casting Co.:
Buys plating firm, B, 11/10, p.209

General Dry Batteries Inc.:
Reclaims mercury, B, 12/15, p.204

General Dynamics Corp.:
Nuclear reactor plant: submarine power, 10/27, p.48

General Electric Co.:
Alloy-strength dev. with Revere, ENG, 11/10, p.97
Aluminum cable use, 9/22, p.184
Arc welder, engine-driven, IE, 12/1, p.142
Atomic lab spherical, pic., 10/27, p.48
BX armored cable, IE, 9/8, p.152
Cable gets Ordnance ok, 11/10, p.106
Cable rating up, 9/22, p.183
CIO seeks increase, 8/11, p.48
Carboloy Dept.:
  Carbide kit for job tests, 7/14, p.124
  Chrome carbide: corrosion resistant, 8/4, p.92
  Magnet kits, 11/10, p.156
  Trains carbide specialists, 12/15, p.108
Circuit breaker, outdoor power, IE, 8/18, p.135
Circuit breaker, plug-in, IE, 9/15, p.166
Certificates issued, 9/15, p.67
Exhibit, Iron & Steel Expo, 9/15, p.116
Expands, Delaware river, 9/22, p.82
Expands, Erie, B, 9/29, p.163
Expands, Westover, B, 12/8, p.188
Generator rotor, pic., 9/29, p.166
Giant stator handled, 8/25, p.102
High-slip induction motor, IE, 12/8, p.147
Horsepower doubled for motors, seeks new rating standards, 10/20, p.53
Hysteresis brake, IE, 11/17, p.153
Industry future report, 10/6, p.52
Jet reheat pump, 11/17, p.135
Liquid fixer chemical, IE, 9/22, p.208
Magnetic flowmeter, IE, 8/11, p.119
Metallurgy report, 12/15, p.112
Miniature lamps inspected, 7/21, p.64
Radio control, materials handling, 7/14, p.122
Refinery-type limitamp, IE, 9/29, p.118
Research lab studies leak stoppers, ENG, 10/13, p.147
Service shop, B, 10/20, p.174
Silicone resin, IE, 10/6, p.133
Steel strike effect, 8/11, p.57
Stress formula cuts test time, 8/18, p.125
Supersonic speed, heat problem, 12/8, p.117
Surface resistance indicator, IE, 7/7, p.140
TV color system will not make present receivers obsolete, 9/1, p.46
Tachometer kits, IE, 8/25, p.134
Transformer for atomic project, Ky., B, 11/10, p.209
Transformer contract, Ga., B, 11/10, p.207
Turbine-generator stacking pit, B, 12/22, p.121
Turbine runs at 1100° F, 10/13, p.297
Turbines of new alloy "Cond-Al", 9/15, p.143
Turbines of "Cond-Al", pic., 9/22, p.82
Ultrasonic cleaning, 11/3, p.92
Voltage measuring reactor, IE, 9/11, p.111
Wage increase approved, 12/29, p.36
Welds on generator stator, IE, 8/11, p.160
X-ray diffraction unit, IE, 8/4, p.148
X-ray film cassette, IE, 10/13, p.343
X-ray "pint-size" unit speeds radiographic inspection, 11/10, p.103

General Motors Corp.:
Aldip coating, 7/7, p.75
Allison power transmissions, 7/7, p.76
Allison-Aeroproducts merge, 9/22, p.95
Buick:
  Aluminum casting, plastic dies, 12/15, p.90
  Automatic transmission redesign, 11/10, p.84
  Capacity '54, 12/8, p.58
  Foundry at Flint casting cleaning dept., 9/1, p.68
  Skylark, 7/14, p.69; 9/8, p.71
  Skylark price, 12/8, p.58
Chevrolet:
  Bonded brake lining, pic., 8/18, p.80
  Castings mass produced, 12/15, p.110
  Fire truck protection, 10/20, p.121
  Saginaw Transmission induction heating for forging of gears, 9/8, p.88
  Sales outlook, 12/22, p.50
  V-8 engine installation for '53, 8/18, p.78
C-O-L allowance drop, 12/1, p.40
Council presents resolutions, 9/29, p.61
Curtice, president, 12/1, p.48
Delco plant, West Coast, B, 12/29, p.129
Dual purpose plant, Texas, 10/13, p.134
Expands in Canada, B, 9/29, p.166
Financial figures cost clue, 11/10, p.84
Fisher Body:
  Model contest, 7/28, p.61
  Move of purchasers to Cleveland re-examined, 12/8, p.79
  Scrap handling-conveyors, 12/8, p.100
GMC:
  Bench tests solve field problems, 11/24, p.102
  Diesels introduced, 7/14, p.70
Harrison Radiator expands, IE, 7/28, p.139
Highway award contest, 11/17, p.72
Oldsmobile:
  Engine valve plotted by camera, 9/8, p.72
  Gun tube plating, 11/17, p.89
  Swiss jig borer, pic., 11/24, p.70
Packaging changes means savings, 10/6, p.57
Packard Electric moves, B, 11/10, p.212
Personnel shifts, 7/28, p.62
Pontiac model (pic.) power steering, 12/8, p.79
Pontiac V-8 engine disclaimed, 9/1, p.68
Research: Sun, seas for energy, 12/1, p.12
Research: Trailblazer for metalworking, 10/13, p.166
Suspension system, truck & coach div., 11/3, p.78
Wilson, pic., cabinet appointment, 12/1, p.48
Woods on Munitions Bd., 11/24, p.61
X-ray view dissects coach, pic., 11/17, p.71

General Motors Diesel Ltd.:
Expands plant, B, 9/22, p.240

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—***Industrial Equipment***

General Motors of Canada Ltd.:
Adds office at N. B., B, 7/21, p.175

General Pacific Corp.:
Deep hole driller, IE, 7/14, p.141

General Petroleum Corp.:
Plans refinery, B, 12/1, p.175

General Refractories Co.:
Silo storage for chrome ore, 7/28, p.92

General Roto Co.:
Lathe duplicator accessory, IE, 11/17, p.156

General Scientific Equipment Co.:
Acid carboy dumper, IE, 12/22, p.90

Gerbing Mfg. Corp.:
Variable pitch motor pulley, IE, 7/21, p.135
Variable speed pulley, IE, 9/29, p.134

Gerhardt Co. Inc., George T.:
Builds larger factory, B, 9/1, p.151

German Volkswagen Co.:
Probes Canadian market, B, 11/3, p.196

Gerrard & Co., A. J.:
Coils of strap cut to spec, 9/22, p.183

Gibney Coffman Corp.:
Moves, B, 11/24, p.174

Giddings & Lewis Machine Tool Co.:
Wheel boring machine for railroad repair shop, 8/4, p.125

Gilbert Cummins & Co. Inc.:
Adds plant, B, 11/10, p.212

Gilfillan Bros. Inc.:
Expands, B, 12/22, p.124

Gilmer Co., L. H.:
Merges, B, 8/4, p.189

Gisholt Machine Co.:
Drawing dimensions properly book, 8/25, p.115
Simplimatic lathe catalog, 12/1, p.122
Special machine improves stainless roll finish, 12/22, p.66

Glasspar Co.:
Plastic auto body, 10/6, p.61

Gleason Works:
Plant expansion, B, 8/18, p.175

Glidden Co.:
Paint catalyst mix, 10/20, p.120
Resin base finish, 9/22, IE, p.206
Zinc explored in Calif., B, 10/20, p.172

Goddeyne Mfg. Co.:
Buys Kavel Wheel, 7/14, p.128

Golde Mfg. Co.:
Moves, B, 9/22, p.240

Goldsmith Bros. Smelting & Refining Co.:
Silver brazing flux, IE, 8/25, p.136

Goodrich Co., B. F.:
Tire testing, pic., 8/25, p.77
Tires, new color transfer, 11/3, p.127
Welder burns a furnace, pic., 7/7, p.179

Goodyear Aircraft Corp.:
Electronic analyzer (brain), 9/1, p.88

Goodyear Tire & Rubber Co.:
AEC plant, B, 10/6, p.163
Expands chemical div., B, 12/8, p.187
Personnel conveyor belt plans, 12/1, p.58
Vulcanizer, pic., 7/14, p.177

Gordon Co., Claud S.:
Mfg. plant, B, 10/27, p.194

Gould-National Batteries Inc.:
Battery charge indicator, IE, 8/18, p.148
Booklets, 9/15, p.138, 12/8, p.117
Moves at N. J., B, 11/24, p.173

Govro-Nelson Co.:
Drill bits 500 parts per hour, 10/13, p.297
Drilling deburring machine, IE, 12/8, p.148

Graham Transmissions Inc.:
Brake motor, IE, 8/25, p.133
Speed transmission, IE, 7/28, p.111

Gray Co. Inc.:
Portable spray gun supply pump, IE, 8/4, p.143

Graymills Corp.:
Coolant pumps, IE, 9/29, p.118
Whirl Agitor, IE, 9/15, p.155

Grayton & Knight Co.:
Liquid belt dressing in spray container, IE, 8/18, p.146

Great Lakes Engineering Works:
Ore boat built, B, 10/20, p.169

Great Lakes Steel Corp.:
Quonset price cut, 8/18, p.57

Great North Foundry Ltd.:
Sold, B, 9/29, p.161

Great Northern Carbon & Chemical Co. Ltd.:
Agent, B, 10/20, p.169

Gregory Industries Inc.:
Plug-welding fishtails, pic., 10/13, p.278

Green River Steel Corp.:
Orders forge shop units, B, 7/21, p.180

Gries Reproducer Corp.:
Agents, B, 8/4, p.190, 11/3, p.191

Griffin Wheel Co.:
Canadian foundry, B, 10/20, p.174

Griscom-Russell Co.:
Consolidates offices, B, 8/4, p.190

Griswold Mfg. Co., F. T.:
Optical dividing head ordered, 10/13, p.309
Optical level for measuring, 9/15, p.132
Optically precise gage, IE, 11/3, p.162

Guibert Steel Co.:
Air drills, IE, 7/7, p.141

Gunnison Homes Inc.:
Builds at Harrisburg, B, 8/4, p.187

H

H & B American Machine Co.:
Buys Midwest Tool, B, 9/8, p.179
Buys Octigan Forge, B, 12/1, p.177

H & F Watchman Co.:
Fire alarms, 10/20, p.72

Hacker & Co. Inc., William:
Universal camera microscope, IE, 9/22, p.204

Hagan Corp.:
Buys American Cast Products, B, 8/25, p.164

Hale & Co., E. V.:
Private financing, 7/28, p.40

Haledy Electronics Co.:
Cold cathode triode tube, IE, 9/1, p.124

Hamilton Tool Co.:
Small hole driller, IE, 7/21, p.140

Hamlin Klock Corp.:
Organized, B, 11/10, p.210

Hammond Iron Works:
Adds at Ala., B, 12/15, p.202
Buys Keyes Tank, B, 12/22, p.124

Hanchett Magna-Lock Corp.:
Electromagnetic chucks, IE, 7/21, p.146

Hancock Steel Co. Inc.:
Chicago branch, B, 10/20, p.169

Hanna Co., M. A.:
Humphrey, pic., cabinet appointment, 12/1, p.48
Oregon ferronickel facilities, 12/22, p.28

Hanna Engineering Works:
Agents, B, 11/17, p.195

Hannifin Corp.:
Valve pressure operated, IE, 9/22, p.208
Valves, 3-way, IE, 9/1, p.127

Hanson-Whitney Co.:
Carbide thread ring gages, IE, 7/14, p.146

Harmar Coal Co.:
Organized, B, 7/14, p.175

Harnischfeger Corp.:
Agent named, B, 8/18, p.180
Birmingham branch, B, 11/3, p.194
Gantry crane, 11/3, p.115
Small shop welder, IE, 10/20, p.131

Harper Co., H. M.:
Adds to plant, B, 10/13, p.369
Plant dispersal, 7/28, p.51

Harrington & Richardson Arms Co.:
Research betters rifles, aluminum revolver new, ENG, 8/4, p.89

Harris Inc., Frederic R.:
Bridge contract, B, 12/1, p.175

Hart Equipment Corp.:
New plant, Man., B, 8/4, p.189

Hartford Special Machinery Co.:
Agents, B, 7/14, p.177, 12/22, p.121

Haskel Engineering & Supply Co.:
Gas booster, IE, 12/22, p.89

Hauck Mfg. Co.:
Bottled gas fired furnaces, IE, 12/8, p.149
Oil atomizing inserts, IE, 11/17, p.154

Haynes Stellite Co.:
Alloy adds life to sheet rolls, 12/29, p.90

Hays Corp.:
Flow meter, IE, 12/8, p.158

Hayward-Tyler Co.:
To add foundry, B, 11/24, p.171

Heald Machine Co.:
Automatic boring unit, IE, 10/20, p.131
Boring machine, 3-station, IE, 8/11, p.121

Heckethorne Mfg. & Supply Co.:
Norgren obtains rights of air gun, B, 9/29, p.163

Hein-Werner Corp.:
Hydraulic jack, IE, 9/29, p.131

Heinemann Electric Co.:
Circuit breaker book, 11/24, p.112

Heli-Coil Corp.:
Award program for students, 12/15, p.122
Inserts, stainless steel wire thread, 11/3, p.105

Heller Co.:
Buys site, B, 12/1, p.177

Heller Stapler Co.:
Fastening gun, IE, 10/27, p.107

Hendey Machine Co.:
Lathe gets variable drive, IE, 8/11, p.128

Hendrick Mfg. Corp.:
Sheet saw, long-railed, IE, 12/8, p.147

Henry & Wright:
Bar and taper cutter, 8/4, p.102
Dieing machine, 10/6, p.100

Heppenstall Co.:
Heavy press, pic., 8/25, p.69
Tongs handle slabs, pic., 10/6, p.109

Herr Engineering Co.:
Slitting line, IE, 8/11, p.119

Herring-Hall-Marvin Safe Co.:
Expands, B, 9/1, p.154

Hewitt-Robins Inc.:
Opens branches, B, 10/27, p.143
Plant dedicated, B, 11/10, p.210

Hewson Co., John:
Agents named, B, 10/20, p.171
Chicago office, B, 12/15, p.202

Hexacon Electric Co.:
Soldering iron, IE, 9/8, p.155

High Precision Inc.:
Miniature clutches, IE, 9/22, p.197

Hill Diesel Engine Corp.:
Changes hands, B, 10/27, p.143

Hillco Inc.:
Welding gantry, IE, 9/1, p.118

Hitchiner Products Corp.:
Cuts castings cost, B, 7/28, p.139

Hoe & Co. Inc., R.:
Atomic cannon, recoil motions, 12/8, p.120

Hoffman Co.:
Acquires Davis Metal Scraper, 10/6, p.91

Hoffman Laboratories Inc.:
Expands, B, 9/8, p.181

Holger Andreasen Inc.:
Radiographic unit, IE, 12/8, p.154

Holley Carburetor Co.:
Ventilated tungsten contacts, 9/8, p.111

Hollingshead Corp., R. M.:
Fingerprint compound, 10/27, p.50
Reorganizes div.s, B, 9/15, p.195

Holman Machines Ltd.:
Dissolves association, B, 7/14, p.180

Holmes & Bros. Inc., Robert:
Machine crushes welding flux, IE, 7/21, p.140

Holub Industries Inc.:
Heavy duty live centers, IE, 10/20, p.131

Homestrand Inc.:
Precision height gages, IE, 11/17, p.164

Hooker Chemicals Ltd.:
Organized, B, 10/20, p.174

Hooker Electrochemical Co.:
Chicago sales office, B, 9/15, p.195

Hoover Co.:
Sump pump motor, IE, 8/25, p.136

Horton Bristol Mfg. Co.:
Sold, B, 8/11, p.159

Hose Accessories Co.:
Brass hose couplings, IE, 9/15, p.167

Hoster Steel Corp.:
Okla. mill plans reopen, B, 8/11, p.157

Hough Co., Frank G.:
Sold, B, 11/10, p.210

Code: B *Briefs*; ENG *Engineering and Production News*; IE *Industrial Equipment*

Houghton & Co., E. F.:
Carburizing bath, ENG, 7/7, p.89

Howard Co., Harold F.:
Management folder, 11/17, p.118

Howe Scale Co.:
Axle load scales, IE, 10/6, p.133

Hoyne Iron & Steel Co.:
Merges, B, 11/24, p.174

Huber Mfg. Co.:
Welders mounting, pic., 12/1, p.116

Hubbell Metals Inc.:
Adds warehouse, B, 7/28, p.141

Hubbellite Corp.:
Organized, B, 11/24, p.173

Huck Mfg. Co.:
Angle adapter aids blind riveting, IE, 9/29, p.127

Hudson Motor Car Co.:
J&L contract for steel supplies, 9/15, p.66
Jet described, 12/1, p.40
Models, 12/15, p.90
Valley Mfg. plant at Newcastle opens, 9/15, p.66

Hull & Co. Inc., R. O.:
Anode basket, IE, 7/7, p.153

Hunt & Son Inc., C. B.:
Adds agents, B, 7/21, p.178

Hupp Corp.:
Tumbling barrel, IE, 12/1, p.136

Hybeny Bros.:
Voelker reports on soft soldering alum., ENG, 8/25, p.91

Hydraulic Power & Equipment Co.:
Agent named, B, 7/14, p.178

Hydraulic Press Mfg. Co.:
Moves at N. J., B, 8/18, p.178
Plastics business up, 9/8, p.59
Preplasticizing injection molder, 9/29, p.97

Hydro-Aire Inc.:
Opens plant, B, 8/4, p.190
Rotary actuator, IE, 7/7, p.144

Hydrocoal Corp.:
Pipe line for coal, 12/15, p.68

Hydromotor Inc.:
Sold, B, 9/15, p.195

Hydropress Inc.:
Consolidates offices, B, 7/7, p.177
Extrusion-glass lubrication type more soon, ENG, 9/15, p.91
Green River order, B, 7/21, p.180
Loewy contract to Kaiser, B, 9/15, p.195

Hykon Mfg. Co.:
Wire measuring unit, IE, 8/18, p.148

Hy-Pro Tool Co.:
Machine screw taps, IE, 9/22, p.213

Hyster Co.:
Moves export dept., B, 8/4, p.190
Transfers office, B, 10/20, p.171
Truck uprights, IE, 9/22, p.203
Turret trucks, catalog, 12/8, p.112

I

Illinois Tool Works:
Cutting tool line, 11/3, p.144

Imperial Brass Mfg. Co.:
Flaring tools, IE, 8/25, p.133
Tube bender, gear-type, IE, 10/20, p.142

Imperial Chemical Industries:
Titanium production, 11/24, p.62

Induction Heating Corp.:
Heating book, 10/13, p.322

Industrial Bearing Co.:
Moves, B, 8/4, p.189

Industrial Bench & Equipment Mfg. Co.:
Expands line, B, 10/13, p.369

Industrial Castings & Forgings Co.:
Partnership formed, B, 7/7, p.177

Industrial Grinding Co.:
Grinding fixture, IE, 10/20, p.145

Industrial Products Sales Inc.:
Dayton branch, B, 8/18, p.175

Inet Inc.:
Rectifier unit, IE, 12/15, p.161

Ingersall Milling Machine Co.:
Tool replacement program, ENG, 11/17, p.85

Ingersoll-Rand Co.:
Centrifugal pumps, IE, 8/18, p.142
Portable compressors, IE, 9/29, p.121
Small pump line, IE, 7/21, p.136

Inland Steel Co.:
Earnings, 2nd quarter, 8/11, p.57
Molten iron shipped to U. S. Steel at Gary, pic., 9/1, p.59
Open hearth, E. Chicago, 9/15, p.56
Open hearths added, 10/6, p.49

Innis, Speiden & Co.:
Sold, B, 10/27, p.144

Insul-Mastic Corp. of America:
Agents, B, 12/22, p.127

International Harvester Co.:
Boron steels, carbon content determines behavior, 10/13, p.154
Buys Hough Co., B, 11/10, p.210
Dedicates buildings, B, 10/6, p.161
Equips plant, B, 7/7, p.177
Expands, Canada, B, 12/22, p.123
Metal substitutes, savings, 8/25, p.118
Packaging savings, 10/6, p.57
Shell molding data, 12/22, p.68

International Nickel Co.:
Forge hammer floats on concrete raft, 10/13, p.256

International Nickel Co. of Canada Ltd.:
Batteries power blasting, pic., 12/1, p.177
Waste sand makes mine floors, 8/11, p.92

International Resistance Co.:
Plant, N. C., 12/1, p.178

Interstate Drop Forge Co.:
Agents named, B, 11/3, p.194

Investment Casting Co.:
Castings booklet, 8/4, p.120

Ipsen Industries:
Furnace, sealed, controlled atmosphere eliminated second-operation cleaning, 9/1, p.92
Heat treating unit, IE, 7/28, p.107
Metal treating unit, IE, 12/29, p.98

Iron Fireman Mfg. Co.:
Merged effort for burner unit, 11/24, p.176
Packaging changes, 10/6, p.57

Irving Subway Grating Co.:
Grating for Sikorsky storage, 8/4, p.128
Grating installed, B, 7/28, p.144

Irvington Varnish & Insulator Co.:
Cement for lining tanks, IE, 10/6, p.133

Isotope Products Ltd.:
To build, B, 7/14, p.180

J

J & S Tool Co. Inc.:
Builds, B, 12/15, p.199

Jack & Heintz Inc.:
Bulletin, aircraft motor parts, 11/24, p.112

Jacobson Mfg. Co. Inc.:
Nuts production methods, ENG, 7/7, p.89

Janco Corp.:
Adds to plant, B, 9/15, p.198

Janette Electric Mfg. Co.:
Electric valve control, IE, 9/29, p.118

Jarke Mfg. Co.:
Feeder cart, IE, 8/4, p.155

Jefferies Engineering Co.:
Changes name, B, 11/3, p.194

Jefferson Electric Co.:
Mercury transformers, IE, 7/7, p.148

Jelliff Mfg. Corp., C. O.:
Agent, B, 12/8, p.185

Jergens Co., J. G.:
Pilot bearing bushing, IE, 8/11, p.133

Jergens Tool Specialty Co.:
Hand bar speed knobs, IE, 9/22, p.210

Jerpbak-Bayless Co.:
Gear grinder wheels, IE, 10/6, p.133

Jessop Steel Co.:
To build, Ont., B, 9/29, p.166

Johnson & Son Inc., S. C.:
Wax-Cut, compound in concentrated form, IE, 11/10, p.172

Johnston & Jennings Co.:
Jolt squeeze pin-lift molder, IE, 9/22, p.203

Johnston Lawn Mower Corp.:
Moves, B, 9/29, p.163

Jonco Aircraft Corp.:
Big tooling job completed in record time, 10/6, p.80

Jones & Lamson Machine Co.:
Grinding machine shapes sides of jet bucket Christmass tree, 7/21, p.88
Machine sharpens chasers, IE, 9/8, p.146

Jones & Laughlin Steel Corp.:
Dust in gases, experiments for cleaning, 8/4, p.105
Financial report, 8/25, p.65
Houston warehouse, 9/15, p.56
Hudson contract, 9/15, p.66
Ore carriers sold, 12/1, p.40
Steel drawability measured, 8/4, p.100

Joseph Co. Ltd., N. C.:
Plans Canadian plant, B, 7/14, p.180

Joyal Products Inc.:
Spot-welding, soldering tool, IE, 8/25, p.126

K

KSM Products Inc.:
Moves, B, 10/27, p.148

Kaiser Co., Henry J.:
AEC contract, Kaiser Engineers, B, 8/11, p.157
Kaiser-Frazer investment, 9/1, p.46

Kaiser Aluminum & Chemical Corp.:
Bonneville curtailment, affect, 9/8, p.49
Expands sales, B, 8/11, p.159
Expands at Maryland, B, 10/27, p.144
Fluorspar mill, B, 12/22, p.126
Ingot (giant) for heavy press forgings dev., 7/7, p.65
Loewy mill contract, B, 9/15, p.195
Newark heavy press forge contract, B, 9/18, p.175
Potlines, New Orleans, 11/17, p.50
Press pit, pic., 12/15, p.204

Kaiser-Frazer Corp.:
Aircraft engine components machined in complex setups, 9/15, p.97
Henry J. Kaiser Co. invests, consolidation with another business considered, 9/1, p.46
All-State sales slow, 9/15, p.56
Manpower shortage, 10/13, p.133
Model—'53, 12/1, p.62
Plastic body, 10/6, p.61
Press installed, pic., 8/11, p.58
Price cuts, '53 model, 10/20, p.76
Retirement benefits, 7/7, p.76
Richmond plant, pic., parts for Boeing, 12/22, p.37
700,000th car, pic., 10/20, p.76
Sports roadster, 10/6, p.61
Stockholders seek management changes after financial loss, 8/18, p.58
Tools for transports, pic., 11/3, p.77

Kaiser Steel Corp.:
Electrolytic tinning line, Beta-ray gage used, 12/8, p.112
Girder on open hearth, pic., 11/3, p.193
Ratchet wrench, 11/24, p.129
Tinplate output, pic., 8/18, p.70

Karp Metal Products Co. Inc.:
Agents, B, 12/22, p.126
Transmitter cubicle for Voice of America, 9/22, p.86

Kates Co., W. A.:
Flow-rate regulator control, IE, 7/7, p.150

Kaydon Engineering Corp.:
Agent named, B, 10/20, p.169
Buys Frauenthal, B, 7/21, p.175
Giant bearings for gun mounts of Patton tank, 10/13, p.297

Kayel Machine & Tool Co.:
Sells div., 7/14, p.128

Kearney & Trecker Corp.:
Machine tool plant needs no NPA funds, 11/24, p.72

Kelekel X-Ray Corp.:
X-ray catalog, 11/17, p.118

Kelite Products Inc.:
Detergent cleans aluminum, magnesium, IE, 8/25, p.139
Factory new, N. J., B, 9/29, p.166

Keller Tool Co.:
Angle-type drill, IE, 12/1, p.131
Ratchet wrench, IE, 12/29, p.97

Kellogg Co., M. W.:
Builds, B, 7/7, p.179

Kelly Safety Device Co.:
Gas cutoff valve, IE, 9/22, p.210

Kenco Mfg. Co.:
Punch press, IE, 9/1, p.112

Kennametal Inc.:
Carbide drill units, off-center triple-edge, 11/3, p.105
Carbide inserts reduce turning time of cast iron drier rolls, 7/28, p.84
Cemented tungsten carbide clamped tools for gun tube output, 9/8, p.99
Precision gang tools speed roll grooving, 9/15, p.106
Time cut by trepanning, 10/13, p.312
Transfer machine, two facing heads, 8/4, p.122
Explosive pressing forms new material, 9/29, p.76

Ketals Mfg. Co.:
Gage lab for Detroit Arsenal, 9/22, p.96

Kewanee Boiler Corp.:
Organized, B, 7/7, p.180

Kewanee-Ross Corp.:
Joint effort with Iron Fireman, pic., 11/24, p.176
Taped templates, 10/20, p.120

Keyes Tank & Supply Co.:
Sold, B, 12/22, p.124

Kidde & Co. Inc., Walter:
Oxy-propane cuts costs, pic., 7/28, p.177

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Kidde Nuclear Laboratories, Walter:
Established, B, 10/27, p.143

Kindt Collins Co.:
Air control valve, IE, 7/21, p.146

King Machine Tool Div.:
See American Steel Foundries

Kings County Lighting Co.:
Gas fired unit heaters installation cost cut, 10/20, p.94

Kingston Products Corp.:
Organized, B, 9/1, p.151

Kinne Equipment Co.:
Organized, B, 11/10, p.212

Kist Machine Co.:
Drumobile, IE, 9/22, p.208

Knapp Co., James H.:
High temperature furnaces, 11/8, p.99

Knapp Mills Inc.:
Active in Canada, B, 8/4, p.189
Sponsors clad metal patent exchange, 11/10, p.72

Koldweld Products Inc.:
Sold, B, 11/10, p.207

Koolvent Aluminum Awning Corp.:
Baltimore plant, B, 11/3, p.196

Koppers Co.:
Coke oven contract, B, 9/29, p.161

Korhumel Steel & Aluminum Co.:
Agent for Parker, B, 10/13, p.369
Buys Federal Bldg., B, 12/8, p.188

Kramer & Co., H.:
Smelter plant, B, 10/27, p.143

Krasilovsky Trucking & Millright Co. Inc., Mike:
Moves headquarters, B, 8/4, p.190
Moves plant, B, 7/21, p.177

Kraus Design Inc.:
Carbide cutter combines solid inserted blade, 9/15, p.155

Krieg Inc., Victor J.:
Sheet slicer hand shears, 10/6, p.97

Kropp Forge Co.:
Engineering unit, B, 11/3, p.193
Heat treating furnaces, pic, 12/29, p.90

Kuhlman Electric Co.:
Investment casting furnace, IE, 12/15, p.157

Kurt Orban Co. Inc.:
German milling machine, 10/13, p.306
Gildemeister lathe, 10/6, p.86
Machine tool service center, 11/3, p.122
Planer, double column, 11/17, p.138
Schiess machine tools, B, 8/4, p.190

Kyle & Co.:
Expands facilities, B, 7/28, p.141

L

Labelon Tape Co.:
Adhesive tape, 12/8, p.138

Lake Erie Engineering Corp.:
Press breaks billets used in producing artillery shells, 10/20, p.119
Presses installed, 12/8, p.140
Ships presses, B, 11/24, p.171
Traveling head straighteners, IE, 7/21, p.135

Lamb Steel Co.:
Organized, B, 10/20, p.171

Lamson & Sessions Co.:
Pass-through average, 10/6, p.37

Landis Machine Co.:
Chaser grinding fixture, IE, 10/27, p.103
Die head, self-opening, IE, 8/4, p.143

Landis Tool Co.:
Concentric grinder, IE, 11/24, p.147
Grinder for large workpieces, IE, 11/3, p.152
Grinder, semiautomatic, IE, 10/13, p.328

Langley Mfg. Co.:
Powerlift 1000-lb., IE, 7/28, p.107

LaPlant-Choate Mfg. Co.:
Allis-Chalmers may buy, 8/4, p.187

Lapointe Machine Tool Co.:
Anniversary, 7/7, p.66
Horizontal broacher, IE, 11/24, p.142

Larrimore Sales Co.:
Laminated plastic magnifier, IE, 7/28, p.111

La Salle Steel Co.:
Lead-bearing steels new, 7/7, p.100

Latrobe Steel Co.:
Moves at Detroit, B, 7/28, p.139
Tool steel bars, size barrier overcome, 11/3, p.96

Lavin & Sons Inc., R.:
Completes project, B, 11/17, p.198

Lawrence Warehouse Co.:
Field warehousing aid to capital shortage, 9/1, p.61

Lazenby Co., F. A.:
Expands operations, B, 11/3, p.194

Lee Engineering Co.:
Moves, B, 7/14, p.180

Lee Rubber & Tire Corp.:
Republic plant, B, 8/11, p.160

Leeds & Northrup Co.:
Employee stockholding, 7/21, p.62

Lees Bradner Co.:
Agent named, B, 10/27, p.143

Leiman Bros. Inc.:
Oiler, IE, 7/14, p.151

Leinart Engineering Co.:
Agent named, B, 8/4, p.190

Leland Electric Co.:
Sold, B, 7/14, p.178

Lemert Engineering Co.:
Rivet for fragile materials, IE, 9/15, p.162

Lempco Products Inc.:
Safety prop for die set, ENG, 8/25, p.91

Le Roi Co.:
Mining machine rights purchased, 8/11, p.162

LeTourneau Inc., R. G.:
Liberian expedition gospel industrialization, 9/22, p.91
Pusher unit, 7/21, p.103

Lewis-Shepard Products Inc.:
Agents, B, 10/6, p.163; 12/8, p.187
Expands, B, 11/24, p.171
Lift truck, 4- to 6,000 lb., IE, 10/6, p.130
Platform truck carries load and operator, IE, 11/10, p.172
Side discharge truck, IE, 10/13, p.334
Stackers, special purpose, 11/10, p.142

Liberian Mining Co. Ltd.:
Higher royalties asked, 7/14, p.48

Liebel-Flarsheim Co.:
Moves, B, 10/20, p.169

Life Time Products Corp.:
To expand, B, 9/22, p.242

Light Alloys Ltd.:
Foundry opened, B, 9/22, p.239

Lincoln Electric Co.:
Award programs, 9/1, p.151 and 10/20, p.122
Booklets, 10/13, p.304; 11/17, p.132

Lincoln Engineering Co.:
Booster gun, IE, 9/22, p.206
Power-pumps dispense material, IE, 9/1, p.118
Reusable couplings, IE, 8/25, p.136

Lincoln Park Industries Inc.:
Expands, B, 9/1, p.153
Grinder works small radii, IE, 7/7, p.144

Lindberg Engineering Co.:
Atmosphere control, IE, 12/29, p.97
Barrel furnace, pic, 10/13, p.270
Carbonitriding line, IE, 7/14, p.135
Induction-heating units, IE, 11/3, p.164
Site, L. A., B, 10/20, p.172

Lindberg Steel Treating Co.:
Expands, B, 12/1, p.175

Linde Air Products Co.:
Acetylene regulator, IE, 9/15, p.171
Blowpipe cutting attachment, IE, 10/13, p.330 and 284
Blowpipe welding heads, IE, 9/29, p.137
Flame plating, 9/29, p.82
Heliarc torch for machine welding, IE, 11/24, p.144
Isotopes aid weld inspection, 8/11, p.88
Jet engine welding methods, 12/29, p.76
Metalcutting carriage, IE, 8/18, p.138
Water-cooled welding torch, IE, 10/20, p.134

Line Material Co.:
Machine ups shell output, 10/13, p.278

Link-Belt Co.:
Adds to Seattle plant, B, 8/11, p.157
Belt conveyors for ore exhibited, 9/8, p.108
Induction furnace feeding conveyor, 7/7, p.100
Job shop runs on mass production, 12/8, p.70

Lithium Co.:
Lithium vapor, 9/8, p.131

Littell Machine Co., F. J.:
Automatic centering reels, IE, 9/22, p.197

Little Inc., Arthur D.:
Business report, 9/29, p.49
Forms international unit, B, 11/24, p.174
St. Louis office, B, 9/8, p.181

Lockformer Co.:
Slitting attachments, IE, 12/15, p.161

Lockheed Aircraft Corp.:
Adds plant, Palmdale, B, 7/7, p.180
Air cargo trends, 12/29, p.46
Chromium plating aircraft tools, ENG, 8/11, p.83
Colored tags identify, 11/3, p.194
Drill jig installed, pic, 7/21, p.180
Elevator loads planes, 11/3, p.135
Jet flight project, B, 12/29, p.130
Plastic adds strength to structural parts, ENG, 11/3, p.91
Plastic draw dies, 12/15, p.122
Refrigerator slows hardening, ENG, 10/6, p.75
Strippable vinyl plastic coating, 7/28, p.102
Super Constellations await completion, pic, 12/29, p.133
Treadmill landings test, 11/17, p.144
Two-story hole spotter, 8/18, p.102
Wing beam caps shaped, pic, 12/29, p.48
Wing section shipped, pic, 9/1, p.64

London Chemical Co.:
Varnish remover, ENG, 11/10, p.97
Waterproofing compound, IE, 9/1, p.127

Lone Star Steel Co.:
Seamless mill operating soon, 12/22, p.27

Longhorn Tin Smelter:
Resumes operations, 10/27, p.45

Longren Aircraft Co.:
Race track board (production), 9/15, p.68

Loudee Steel Corp.:
Press for conversion of scrap, pic, 9/1, p.58

Loveman & Son Export Corp., D.:
Warehouse, B, 12/29, p.133

Lucerne Coke Co.:
GSA loan for beehive ovens, 10/6, p.54

Lufkin Rule Co.:
Dial test indicator, IE, 7/7, p.150

Lukens Steel Co.:
Adds Albany office, B, 7/21, p.180
Adds Ohio branches, B, 8/4, p.187
Copper-clad plate, 10/13, p.272
Extraction service, B, 10/6, p.161
Huston Jr., steel spokesman, 10/27, p.35
Maintenance building, B, 9/1, p.156
Plate mill rumor, 12/29, p.36

Lunkenheimer Co.:
Bronze needle valve, IE, 8/25, p.139

Luria Engineering Co.:
Adds foundry, Bay City, B, 9/1, p.151
Builds for Monroe, B, 8/18, p.180
Building boom, Herbert Luria reports, 12/29, p.48

Lux Clock Mfg. Co.:
Clocks of powdered metal, 11/10, p.142

Mc

McCaffrey-Ruddock Tagline Corp.:
Magnet service, 12/15, p.152

McCulloch Motors Corp.:
Buys Exacto, B, 8/25, p.166
Centrifugal fire pump, IE, 10/13, p.339

McDonough Mfg. Co.:
Drill grinder, IE, 9/15, p.166
Tool and cutter grinder — table swing, IE, 12/8, p.157

McGraw & Co., F. H.:
AEC contract, 7/28, p.40
Alcoa award for press, B, 12/22, p.127
Moves equipment for Standard Railway, 10/13, p.131

McKay Machine Co.:
Drawbench, 100,000-lb. capacity, 10/6, p.91

McKee & Co., Arthur G.:
Toronto office, B, 10/27, p.144

McKiernan-Terry Corp.:
Steam catapult for aircraft carriers to be built, ENG, 9/22, p.100

McKinnon Industries Ltd.:
Opens Ont. foundry, B, 11/3, p.194

M

Mt. Clemens Metal Products Co.:
Merges, B, 11/24, p.171

Macauley Machinery Co.:
Moves to Rochester, B, 11/24, p.171

Machine Products Corp.:
Machine workholder, IE, 9/1, p.111

Machinery Electrification Inc.:
Time delay relay, IE, 12/15, p.168

Macklin Co.:
Agents named, B, 11/3, p.194
Incorporates subsidiaries, B, 10/27, p.148

Code: B *Briefs*; ENG *Engineering and Production News*; IE *Industrial Equipment*

Macwhyte Co.:
Wall chart, crane signals and slings use, 12/8, p.120

Magline Inc.:
Hand truck with stair climber, IE, 7/14, p.148
Magnesium barrel skid, IE, 12/22, p.90
Magnesium dock board, IE, 11/3, p.167

Magnaflux Corp.:
Nondestructive testing, pic., 10/13, p.159

Magna-Lock Inc.:
Magnetic sine chuck, IE, 12/8, p.147

Magnecord Inc.:
Tape recorder of noise, 7/14, p.107

Magne-Grip Tool Co.:
Vise built-in magnets, IE, 12/15, p.167

Magnesium Corp. of America:
Yard ramp for loading, 11/10, p.100

Magnus Chemical Co.:
Desealing compound for shell rings, 7/14, p.130
Div. gets distributorship, B, 9/15, p.198

Main Belting Co.:
Static-free belt, IE, 8/18, p.146

Mall Tool Co.:
Nibbler drill attach., IE, 9/1, p.120
Power drill, IE, 12/15, p.175

Mallory & Co. Inc., P. R.:
Die adaptor, IE, 11/17, p.154
Holders and electrodes, IE, 10/6, p.134

Mallory-Sharon Titanium Corp.:
West Coast office, B, 10/6, p.161

Moloney Electric Co.:
Transformer plant, B, 9/29, p.163

Malsbury Mfg. Co.:
Fireless steam cleaner, pic., 9/29, p.102

Manco Mfg. Co.:
Guillotine shear, IE, 8/11, p.121
Guillotine shear, IE, 10/13, p.327
Riveting tool, IE, 11/17, p.164

Manganese Chemicals Corp.:
To build, Minn., B, 9/1, p.153

Mangaslag Inc.:
Plant for manganese recovery, 11/17, p.50

Market Forge Co.:
Truck has reversible shelf, IE, 8/4, p.155

Marsch Corp., James P.:
Plant dispersal, 7/28, p.51

Manitowoc Shipbuilding Co.:
Reorganizes, B, 7/7, p.177

Manzel:
Bench-type arbor press, IE, 12/15, p.164

Marcelo Steel Corp.:
Starts production, 8/18, p.108

Marchant Calculating Machine Co.:
Calculator uses thread inserts, 12/8, p.112
Coil inserts add thread muscle for side covers of machines, 10/13, p.274
Enters electronic field, B, 9/8, p.184

Markal Co.:
Metal protective coatings, IE, 9/22, p.206

Market Forge Co.:
Nontelescopic fork truck, IE, 10/27, p.107

Marman Products Co. Inc.:
Completes construction, B, 10/20, p.169

Marquardt Aircraft Co.:
Buys General Tire plant, B, 10/20, p.174

Martin Co., Glenn L.:
Plating plant, B, 12/15, p.201

Martin Co., Joseph J.:
Builds plant, B, 8/11, p.157

Martin-Decker Corp.:
Lift truck scale, IE, 10/6, p.137

Martin Parry Corp.:
Mobile petroleum tanks for Army, 9/29, p.104

Marvic Inc.:
Organized, B, 11/10, p.207

Marvin Machine Products Inc.:
Surface grinder dividing head, IE, 11/24, p.133

Master Pneumatic Tool Co.:
Air-driven screwdrivers, IE, 8/18, p.140

Master Bronze Powder Co.:
Derusto, IE, 10/6, p.134

Matteson Engineering Service:
Formed, B, 8/11, p.160

Maxon Construction Co.:
AEC contract, 7/28, p.40

May-Fran Engineering Inc.:
Scrap conveyor, 12/8, p.100

Maytag Co.:
Adds building, B, 10/20, p.169

Mechanical Handling Systems Inc.:
Roller conveyor, IE, 10/13, p.338
Shell molding machines, 12/22, p.74

Mechanical Specialties Co.:
Moves, B, 8/11, p.159

Meehanite Metal Corp.:
High-duty irons reduce costs, 9/15, p.95
New process for melting borings, B, 10/13, p.367

Mellon Institute:
Standards plan, 7/14, p.122

Menasco Mfg. Co.:
Testing machine for aircraft landing gear, 10/6, p.97

Meneely Bell Co.:
Bell making, pics., 8/25, p.168

Mercury Mfg. Co.:
Clamp handles rolls, IE, 7/28, p.110
Fork truck, IE, 12/22, p.89
Furnace charger truck, IE, 11/10, p.178

Metal Fabricators' Assn.:
Organized, B, 11/3, p.194

Metal Finish Inc.:
Organized, B, 12/29, p.129

Metal Products Co. Inc., E. B.:
Consolidates offices, B, 7/14, p.175

Metal Trim Co. Inc.:
Organized, B, 12/1, p.175

Metallic Products Mfg. Corp.:
Formed, B, 8/4, p.190

Metallizing Co. Inc.:
Engine cylinders metal sprayed, pic., 10/27, p.89

Metallizing Co. of America:
Replaces burned-off galvanite, 10/13, p.322

Metalloid Corp.:
Cutting agent X-30, 7/7, p.126
Drawing compound, ENG, 10/20, p.89

Metco Corp.:
Dayton offices, B, 12/1, p.177

Method X Co.:
Spark machining: Meets super-alloy challenge, 7/7, p.92

Metron Instrument Co.:
Adjustable speed changer, IE, 8/18, p.151
Tachometer heads, IE, 9/8, p.143

Michigan Crane & Conveyor Co.:
Small business—a case study, 11/17, p.67

Michigan Iron & Coke Co.:
To build plant, St. Clair river, 8/11, p.58

Michigan Powdered Metal Products Co. Inc.:
Powdered gear production up, 11/10, p.133

Michigan Tool Co.:
Gear rolling fixture, IE, 12/8, p.156
Gear shapers, IE, 7/14, p.135
Hob and worm lead checker, IE, 11/10, p.183
Swivel caster turntable, IE, 11/3, p.160
Worm gears for valves, 9/1, p.97

Micro Switch:
Mercury switch in plastic potting compounds, IE, 8/4, p.160
Switch, waterproof, snap-action, IE, 7/14, p.146

Midland Industrial Finishes Co.:
Manifold finish, 11/17, p.150

Mid-States Welding Mfg. Co.:
A welder-charger, IE, 10/6, p.134

Midvale Co.:
Forging presses, pic., 12/1, p.78

Mid-West Forging & Mfg. Co.:
Heat treating furnaces, 12/8, p.128

Midwest Precision Corp.:
Caster for trailer-trucks, IE, 9/29, p.134

Midwest Tool & Engineering Co.:
Sold, B, 9/8, p.179

Milford Rivet & Machine Co.:
Buys Pacific Rivet, B, 9/15, p.197

Miller Dial & Name Plate Co.:
Builds, B, 9/1, p.156

Miller Glass Engineering Co.:
Revision boost nut blank output, pic., 9/1, p.97

Miller Motor Co.:
College on wheels, 9/8, p.132

Millholland Machinery Co. Inc.:
Boring mill, IE, 12/8, p.148

Milne & Co., A.:
Booklet, tool steels, 12/15, p.112

Milwaukee Stamping Co.:
Coated abrasives, 8/25, p.92

Mine Safety Appliance Co.:
Gloves, heat resistant, pic., 11/10, p.136

Minneapolis-Honeywell Regulator Co.:
Air-operated valve, IE, 7/28, p.111
Alarm silencing relay, IE, 9/29, p.131
Balance-detector measures molten heat, 11/10, p.106
Centralized safety control, IE, 7/7, p.150
Conveyor belt weighing, 12/8, p.112
Electronic flow meter, IE, 10/13, p.333
Jet engine lab planned, B, 8/18, p.178
Miniature indicators, IE, 8/11, p.133
Short-cycle test control, 9/29, p.106

Minneapolis-Moline Co.:
Multi-use machine, 9/22, p.84

Minnesota Mining & Mfg. Co.:
Coated abrasive polishing belt, IE, 9/15, p.171
Quik-Masks, IE, 11/17, p.162

Mir-O-Col Alloy Co. Inc.:
Builds foundry, B, 9/22, p.240
Wire for rebuilding, 9/8, p.114

Mobilift Corp.:
Sit-down type fork lift, IE, 9/1, p.117

Modern Industrial Engineering Co.:
Burr-Master chamfers zerol gears, IE, 8/25, p.125
Machine drills jet housings, 10/27, p.77
Machine spots jacket leaks, 11/3, p.119
Pressure testing machine, IE, 11/17, p.160

Modern Steel Heating Co.:
Twin retorts, pic., 8/4, p.189

Modernair Corp.:
Air hydraulic cylinder, IE, 8/11, p.133

Modine Mfg. Co.:
Production starts, convector radiators, B, 8/11, p.157

Mojac Engineering Co.:
Opens offices, B, 11/17, p.195

Monarch Machine Shop Inc.:
Wheel dresser, IE, 8/25, p.139

Monarch Machine Tool Co.:
Bed ways: Hardened under fire, 12/29, p.86
Book on recruiting engineers, 8/18, p.125
Plant layout streamlines production, 10/27, p.74

Monroe Co. Inc.:
Anti-rust paint, IE, 12/8, p.149
Floor resurfacing material, IE, 7/21, p.151
Pozcote, synthetic coating, IE, 10/13, p.336

Monsanto Chemical Co.:
Atomic power plant feasible, report, 7/7, p.63

Montgomery Engineering Co.:
Moves, B, 11/17, p.195

Moore & Co., Samuel:
Instrument tubing harness, IE, 8/18, p.151

Morey Machinery Co. Inc.:
Profiler for large castings, IE, 11/3, p.151

Morris Machine Tool Co.:
Piston balancing machine, 9/15, p.123

Morris Steel & Supply Co.:
Agent for: B, 9/29, p.163

Morton Gregory Corp.:
Stud welded hanger, 12/1, p.107

Morton Mfg. Co.:
Draw-cut shaper, IE, 11/24, p.136
Universal girth welder, IE, 11/17, p.169

Mosebach Electric & Supply Co.:
Stock sold, B, 7/14, p.180

Mosler Safe Co.:
Safe guards U. S. relics, 12/8, p.136

Motch & Merryweather Co.:
Transfer machine, 8/4, p.122

Motor Generator Corp.:
Self-propelled ground power unit new for aircraft, 7/7, p.100

Motor Specialties Corp.:
Name changes, B, 7/28, p.142

Motorola Inc.:
Buys Toronto plant, B, 7/28, p.144
Prices cut on '53 TV, 8/18, p.58
Transmitter—29 ounces, 12/8, p.122

Code: B—*Briefs*, ENG—*Engineering and Production News*, IE—*Industrial Equipment*

Mullins Mfg. Corp.:
Extrusion plant, Warren, O., 10/13, p.130

Multi-Clean Products Inc.:
Electronic motor shutoff, IE, 10/27, p.110
Industrial vacuum cleaner, IE, 8/18, p.146
Motorized industrial sweeper, IE, 11/3, p.162

Multifinish Mfg. Co.:
Magnetic hand tool, IE, 11/24, p.138

Munhall Co., J. K.:
Merger, B, 11/17, p.196

Murray Corp.:
Acquired by Randall, B, 11/3, p.193

Murray Corp. of America:
Agent named, B, 10/27, p.148
Buys Triplex Screw, B, 11/17, p.195
Reorganizes div., B, 8/11, p.162

Murray Metal Polishing Co.:
Coated abrasives, 8/25, p.93

Mystik Adhesive Products:
Thinflex masking tape, IE, 12/22, p.92

N

Nash Co., J. M.:
Automatic flash lathe, IE, 10/27, p.108

Nash Kelvinator Corp.:
Buys Altofer Bros., B, 10/13, p.369
Casting flexibility, ENG, 9/15, p.91
Dr. I. A. Philipp: How an inventor and engineer operates, 11/10, p.79
Miniature car, 10/6, p.40

National Acme Co.:
Crane truck snakes steel in box car door, pic., 8/4, p.116
Inventory drops, 12/8, p.75
Machine builder solves a problem, 11/10, p.108

National Automatic Tool Co.:
Drilling handbook, 8/11, p.97

National Automotive Fibres Inc.:
Expands in Canada, B, 11/3, p.194

National Broach & Machine Co.:
Gear rolling fixture, IE, 8/18, p.135

National Carbon Co.:
X-ray analysis, 12/8, p.134

National Carbon Ltd.:
To build, B, 11/17, p.196

National Cylinder Gas Co.:
Powder cutting unit, IE, 12/29, p.97

National Distillers Products Corp.:
Acquires business, B, 8/4, p.190

National Electric Products Corp.:
Nepcoduct new trade name, IE, 9/15, p.195
Portable circuit extension, 7/7, p.118
Welding resistance machines, 7/21, p.92

National Lead Co.:
Basing point, FTC decisions, 12/1, p.39
Buys German firm, B, 7/28, p.139
Buys valve firm, B, 10/13, p.367
Merger planned, 12/22, p.37

National Lift Co.:
Moves, B, 11/10, p.216

National Malleable & Steel Castings Co.:
Foundry for Ariz., B, 12/1, p.175

National Research Corp.:
Vacuum coating equipment, IE, 7/28, p.107

Natriphene Co.:
Industrial dermatitis control, 8/4, p.94

Neosid (Canada) Ltd.:
Builds plant, B, 7/28, p.144

Negaunee Mine Co.:
Rotating racks speed lamp distribution, 7/28, p.94

National Roll & Foundry Co.:
Car-type heat treating furnace installed, B, 9/15, p.195

National Stamping Co.:
Merges, B, 11/24, p.171

National Steel Corp.:
Ore boat, *Ernest T. Weir*, 9/8, p.119

National Supply Co.:
Expands in South, B, 10/27, p.148
Induction heat treating machine, pic., 8/25, p.64
Opens Montana store, B, 9/1, p.153
Pipe tested, Spang-Chalfant, 7/7, p.97
Scaffold stresses safety, 10/27, p.145
X-ray gages show seamless pipe crop length at Spang-Chalfant, 7/28, p.80

Nelco Tool Co. Inc.:
Hard steel drill, IE, 10/27, p.110

Nesco Inc.:
Moves depts., B, 12/29, p.129

New Britain Machine Co.:
Circular cutoff tool, IE, 11/10, p.169
Swiss-type copying lathe, rights, 7/14, p.120

New Haven Clock & Watch Co.:
Enters electronics field, B, 7/7, p.180

New Haven Smelting & Refining Inc.:
Aluminum sheet mill plans, 12/1, p.40

New Holland Metals Co.:
Reorganizes, B, 11/3, p.191

New Jersey Zinc Co.:
Arc smelting for zinc, 10/13, p.268
Manual: Powder brass, 10/13, p.275

New York Belting & Packing Co.:
Merges, B, 8/4, p.189

New York-Penn Laundry Machine Corp.:
Changes name, B, 8/11, p.159

Newport Steel Co.:
Production loss, 8/18, p.66

Niagara Blower Co.:
Humidity, temperature control, IE, 12/8, p.149

Niagara Machine & Tool Works:
All-steel bending rolls, IE, 12/29, p.100

Niagara River Steel Corp.:
Formed, 10/13, p.122

Nicholson & Co., W. H.:
Adds to machine works, B, 9/22, p.242

Nicholson File Co.:
Buys Ont. site for plant, B, 9/29, p.161

Nickel Processing Co.:
Nicaro plant, 9/22, p.85
Nicaro plant expands, 12/29, p.49

Nilsson Gage Co. Inc.:
Gage checks over-roll measurement, IE, 12/8, p.148

Nooter Corp.:
Steel stack construction, B, 10/13, p.369

Norgren Co., C. A.:
Buys rights of Heco air gun, B, 9/29, p.163

North Co. Inc., H. W.:
Lab enlarged, B, 8/4, p.189

North American Aviation Inc.:
Adds to plant, B, 12/1, p.178

North American Phillips Co.:
Chart sodium-uranium beams, 12/15, p.126
Diffraction school scheduled, 8/25, p.97
Geiger attachment, IE, 7/28, p.115
Geiger spectrometer, 12/8, p.128
Spectrograph tests films on steel, 10/27, p.92

Northrop Aircraft Inc.:
Buys Radioplane, B, 7/28, p.141
Vacuum impregnating techniques, 7/14, p.88

Northwestern Tool & Engineering Co.:
Cut thread studs, IE, 11/3, p.157

Norton Co.:
Grinding wheel slit nibs of pen points, 8/11, p.104
Single-face lapping machine, IE, 10/13, p.327

Novi Tool & Machine Co.:
Slotted sleeve simplifies tool bit installation, IE, 9/29, p.131

Nox-Rust Chemical Corp.:
Appoints agent, B, 9/1, p.156

Nu-Matic Grinders Inc.:
Air inflated grinders, 10/13, p.292

O

Oberdorfer Foundries Inc.:
Tooling program, consults Beaver Machine & Tool, 11/10, p.98

Ohio Crankshaft Co.:
Heater stations for forging machines, 9/8, p.88
Inserts save copper threads, 11/10, p.150
Tocco opens branches, B, 7/28, p.142

Ohio River Steel Div.:
See Louis Berkman Co.

Ohio Seamless Tube Co.:
Copperweld to buy, 11/24, p.73

Ohio Valley Credit Conference:
Mauthe warns steel profits held down, 11/3, p.64

Oil-Rite Corp.:
Gravity feed oilers, IE, 12/1, p.148

Oklahoma Steel Castings Co.:
Adds plant, Okla., B, 10/20, p.174

Olin Industries Inc.:
Forms Ramset div., B, 9/1, p.154
Qualifies for alum. expansion, 9/1, p.46

Oliver Corp.:
Buys Carter line, B, 10/6, p.161
Expands Midwest, B, 7/21, p.175

Oliver Iron & Steel Corp.:
Price pass-through average, 10/6, p.39

Olson Mfg. Co., Samuel:
Ball bearing idler rollers, IE, 9/8, p.150
Chain drive travels roller curve, IE, 9/1, p.114

Omega Tool & Stamping Co. Inc.:
Consolidates offices, B, 7/14, p.175

O'Neal Steel Co.:
Adds to office, B, 11/24, p.171

O'Neil-Irwin Mfg. Co.:
Bender, IE, 9/29, p.115
Slip roll, IE, 10/6, p.121
Notches sheet, IE, 12/8, p.147
Power punch presses, IE, 11/3, p.151

Orr & Sembower Inc.:
Device adjusts boiler fuel-air, 12/1, p.126

Osborn Mfg. Co.:
Gear deburring method, 8/4, p.94
Grinding, brush finishing done on one machine, 7/7, p.94
Power brushing versatility expands, 11/24, p.122
Shell-molding machine, 12/22, p.77

Osgood Co.:
Anniversary, B, 11/17, p.196
Magnetic tagline, IE, 10/13, p.33

Otis Elevator Co.:
Efficient elevators boost vertical handling, 9/29, p.91
Subcontracts, B, 9/8, p.179

Outboard Marine & Mfg. Co.:
Adds die casting plant, B, 7/21, p.178

Overly Mfg. Co.:
Fire damage, B, 9/1, p.154

Owatonna Tool Co.:
Hydraulic puller, IE, 9/15, p.167
Injection nozzle puller, IE, 9/8, p.152

Owens-Corning Fiberglas Corp.:
Forms packaging sales div., B, 11/24, p.173

Ozark-Mahoning Co.:
Pickling vats heated by submerged combustion unit, 12/15, p.114

P

Pacific Airmotive Corp.:
Chamber tests parts for high altitude flight, 9/8, p.96
Expands, B, 8/18, p.180

Pacific Car & Foundry Co.:
Floating drydock, B, 10/20, p.171

Pacific Rivet & Machine Co.:
Sold, B, 9/15, p.197

Pacific States Cast Iron Pipe Co.:
Seattle office, B, 10/13, p.372

Pacific States Steel Corp.:
Moves offices, B, 12/8, p.190

Pacific Tube Co.:
Bulletin, 11/17, p.144

Pacific Wire Works Co.:
Forms L. A. unit, B, 8/11, p.162

Packard Motor Car Co.:
Changes under J. J. Nance, 8/4, p.75
Clipper, medium-price series, 11/3, p.78
Diesels, Navy contract, 9/1, p.90
Home-appliance output, rumor, 7/28, p.62
Luxury car stressed, 11/3, p.78
Model '53, 12/1, p.61
Power steering unit, 12/1, p.61
Sports-car costs studied, 7/14, p.66
Sport car, Pan American, 9/8, p.71
Vice presidents new, 8/18, p.60

Paint Corp. of America:
Aluminum antirust paint, IE, 8/25, p.136

Paintr, E. Z:
Moves plant, B, 9/22, p.242

Pako Mfg. Co.:
Swing grinder, 8/25, p.97

Palmer-Shile Co.:
Hand dump truck, IE, 7/7, p.118

Pangborn Corp.:
Airless Rotoblast barrels, IE, 7/21, p.135
Heat treater, blast cleaning pays off, 9/15, p.142

Pannier Corp.:
Steel marking machine, 10/20, p.68

Parker Appliance Co.:
Agents, B, 9/22, p.240; 9/29, p.166; 10/13, p.369; 11/3, p.193; 11/24, p.174; 12/8, p.188
Aluminum fittings line, 7/14, p.104

Code: B Briefs; ENG Engineering and Production News; IE Industrial Equipment

Parker Rust Proof Co.:
Opens N. J. plant, B, 11/3, p.194
Parco Black, IE, 9/29, p.128

Pastushin Aviation Corp.:
Buys factory bldg., B, 9/8, p.182
Forms Italian link, 7/28, p.52

Paulsen-Webber Cordage Corp.:
Houston branch, B, 10/20, p.171

Paxson Machine Co.:
Scrap shear, IE, 10/6, p.130

Peabody Industries Inc.:
Hardness reading tester, 7/14, p.110

Peacock Co., J. C.:
Flap tracks made from T-stock, 12/8, p.104

Peck & Harvey:
Expands, B, 9/1, p.154

Peerless Machine Co.:
Magnetic clutch assembly, IE, 7/28, p.107

Pell Cable Cutter Co.:
Electric wire rope cutter, IE, 10/6, p.133

Pelron Corp.:
Coolant for honing, IE, 7/7, p.153

Pence & Co. Inc., Earl H.:
Bucket for midget, 9/8, p.131

Penn Metal Co. Inc.:
Ranch house, pic., 12/15, p.79
Wash. office, B, 7/28, p.141

Penn Scientific Products Co.:
Diamond lapping compound, IE, 7/21, p.148

Pennsylvania Salt Mfg. Co.:
Cryolite subsidized, 7/7, p.65

Peoria Consolidated Manufacturers Inc.:
Defense pool, B, 12/8, p.185

Pereny Equipment Co.:
Roller hearth furnace, IE, 11/10, p.176

Perfection Stove Co.:
Appoints agents, B, 9/1, p.153
Canadian company gets research, B, 11/10, p.210
Sub-zero lab, ENG, 8/4, p.89

Permacast Co.:
Equips foundry, B, 10/27, p.143

Permutit Co.:
Expands further, B, 12/29, p.129

Peterson Welding Laboratories:
Flat surface grinder, IE, 12/15, p.170

Pettibone Mulliken Corp.:
See Johnston & Jennings (div.)

Pfaudler Co.:
Seeks Japanese outlet, B, 7/14, p.175
Stanley Orr urges checking heat treating, unstabilized stainless, ENG, 8/11, p.83

Phelps Dodge Copper Products Corp.:
NLRB ruling, 12/8, p.57

Philadelphia Gear Works Inc.:
Change speed units, 10/13, p.327

Philco Corp.:
Div. moves headquarters, B, 9/8, p.179
Separate radio div., B, 9/29, p.164

Phillips Laboratories Inc.:
Patent bloc granted, 11/24, p.130

Phillips Mine & Mill Supply Co.:
Unit has multi-handling design, IE, 8/4, p.154

Phoenix Iron & Steel Co.:
OPS settles violation case, 10/13, p.120

Piasecki Helicopter Corp.:
Rotor blades, formed spar tubes, 10/13, p.253
Strain gages check in-flight rotor stresses, 7/28, p.77

Pilgrim Co., F. A.:
Moves, B, 9/22, p.239

Pioneer Alloy Products Co. Inc.:
Acquired by Nat'l Lead, B, 10/13, p.367

Pioneer Electronics Corp.:
Sold, B, 8/18, p.177

Pioneer Service & Engineering Co.:
Studies reactors for private industry, 10/6, p.48

Pioneer Tool & Engineering Co.:
Machine mills jet housings, 11/17, p.123

Pipe Line Supply Co.:
Birmingham branch, B, 11/17, p.198

Pitman Mfg. Co.:
Crane has hydraulic boom, IE, 7/7, p.137

Pitnam Industrial Products Corp.:
Shapers, IE, 11/24, p.133

Pittsburgh Coke & Chemical Co.:
Family lights furnace, pic., 12/22, p.124

Pittsburgh Steel Co.:
Expansion, Avery Adams remarks, 12/29, p.44

Pittsburgh Steel Products Co.:
Storage, assembly container, IE, 11/3, p.157

Pivot Punch & Die Corp.:
Plant enlarged, B, 10/6, p.161

Planet Products Corp.:
Clamp for piston assembly, 10/13, p.316

Polymer Corp.:
Agents, B, 11/24, p.176
Nylon strip, 8/18, p.116
Rubber rims, 7/14, p.125

Polyplastex International Inc.:
Castings salvaging methods, 11/10, p.166

Pond-Halfacre Co.:
Partnership formed, B, 11/17, p.196

Porcelain Enamel Products Corp.:
Buys enameling process, B, 11/24, p.171

Port-A-Lift Co.:
Stacker, IE, 12/29, p.97

Portage "Double-Quick" Tool Co.:
Tool holder and adaptor set, IE, 8/18, p.146

Porter Co. Inc., H. K.:
Acquires Watson-Stillman, B, 10/27, p.143
American-Fort Pitt sold, B, 8/25, p.165
Center-break switches, IE, 10/13, p.330
Delta-Star a div., B, 12/15, p.199
Delta switch, metal-enclosed, IE, 12/22, p.92
Quaker Rubber Dallas branch, B, 7/7, p.180
Quaker Rubber Oreg. branch, B, 9/8, p.182
Quaker Rubber warehouse, B, 8/4, p.190

Porter-Cable Machine Co.:
Abrasive blade cutters, IE, 12/1, p.151

Porter Precision Products Co.:
Sheet metal hole puncher, IE, 11/24, p.141

Portland General Electric Co.:
Coated abrasives, 8/25, p.93

Powdered Metal Products Corp. of America:
Casting process, 7/28, p.90
Spur mitre gear formed, 7/28, p.82
Precision castings by shell molding, 10/6, p.83

Powell Muffler Co. Inc.:
Leases space, B, 12/8, p.188

Powell Pressed Steel Co.:
Materials handling box, 10/13, p.249

Power Products Corp.:
Expands, B, 11/10, p.212

Precision Co., T. C.:
Toolmakers' parallel clamps, IE, 7/21, p.151

Precision Castings Co. Inc.:
Buys Bradley-Edlund, B, 9/22, p.242

Precision Metalsmiths Inc.:
Adds agents, B, 8/11, p.160, 10/20, p.172

Precision Metal Products Corp.:
Organized, B, 11/24, p.174

Precision Shot Co.:
Abrasive shot, grit tester, IE, 8/11, p.119

Precision Welder & Flexopress Corp.:
Automatic stamping press, IE, 10/27, p.103

Pressed Steel Co.:
Booklet, 12/22, p.82

Pressed Steel Car Co.:
Acquisition, Axelson and Umpqua, 10/13, p.131
Negotiates for Axelson, B, 9/29, p.161

Pressed Steel Tank Co.:
Buys iron works, B, 10/13, p.369

Pressteel Co.:
Enlarges, B, 8/25, p.164

Pressure Products Corp.:
Moves, B, 7/21, p.178

Prime Mover Co.:
Snow plow attach., IE, 12/22, p.94

Production Instrument Co.:
Electric counters, built-in rectification, IE, 11/10, p.178

Production Machine Co.:
Centerless belt grinds extruded tube stock, 12/8, p.102

Producto Machine Co.:
Rochester warehouse, B, 10/20, p.172

Prosser & Son, Thomas:
Carbide tool grinder, IE, 11/10, p.180

Prufcoat Laboratories:
Primer dev., ENG, 11/3, p.91

Puget Sound Bridge & Dredging Co.:
Welding methods, dredge structures, 10/27, p.92
Welding methods, fabricating steel angle pieces, 11/3, p.102

Pullman Co.:
Spray booths, ENG, 8/18, p.93
Welds used in car repair, 7/7, p.130

Purdy Co., A. R.:
Buys scrap yard, B, 9/22, p.242
Syracuse warehouse, B, 11/10, p.207

Pure Carbon Co.:
Carbon dioxide cooling reported, 11/17, p.118

Pyramid Mouldings Inc.:
Merges, B, 11/24, p.174

Pyrometer Service Co.:
Kit converts pyrometer, IE, 7/14, p.148

Q

Quaid Fabrications Inc.:
Expands plant, B, 12/29, p.129

Quaker Rubber (H. K. Porter)

Quaker State Metals Co.:
Buys New Holland Metals and reorganizes, 11/3, p.191

Quik-Joint Mfg. Co.:
Threadless pipe connector, IE, 8/4, p.158

R

R & S Engineering Co.:
Changes name, B, 9/1, p.153

Radio Corp. of America:
Exhibit electronics uses, 12/8, p.138
Opens L. A. plant, B, 7/21, p.178

Radioplane Co.:
Sold, B, 7/28, p.141

Rahn Granite Surface Plate Co.:
Adds to plant, B, 11/24, p.174

Rail-To-Water Transfer Corp.:
Belt speeds coal unloading, 9/22, p.190

Rampe Mfg. Co.:
Barrel finishing machine, IE, 8/25, p.133
Twin barrel finisher, IE, 12/22, p.92

Randall Corp.:
Adds div., Murray Products, B, 11/3, p.193

Randall Graphite Bearings Inc.:
Sleeve bearing unit, IE, 7/28, p.115

Randolph Foundry:
Merged, B, 8/4, p.190

Rapidesign Inc.:
Isometric template, IE, 7/7, p.148

Rapid Electric Co.:
Selenium rectifier for work stations, 12/1, p.147

Rapids-Standard Co. Inc.:
Cleated belt conveyor, IE, 7/14, p.135

Raybestos-Manhattan Inc.:
Appoints agent, B, 8/18, p.177
Warehouse, Denver, B, 9/8, p.181
Warehouse, Houston, B, 9/1, p.154

Raymond Corp.:
Adjustable base forks, IE, 10/13, p.328
Agents named, B, 7/28, p.139

Raytheon Mfg. Co.:
Office bldg., B, 9/8, p.181
Plastic piping for film strip unit, 11/24, p.129

Read Standard Corp.:
Closes plant, B, 8/25, p.164

Ready-Power Co.:
Diesel truck, IE, 12/15, p.167

Ready Tool Co.:
Universal grinding machine dog, IE, 10/6, p.137
Vise jaws, IE, 9/22, p.197

Recora Co.:
Switchmats, 9/22, p.180

Reed Burns Mfg. Corp., E.:
Buffing test chart, 8/11, p.108

Reed-Prentice Corp.:
Moves at Chicago, B, 7/7, p.180
Pendant miller control, IE, 11/10, p.169

Reed Rolled Thread Die Co.:
Thread rolling attach., IE, 10/20, p.134

Reed Roller Bit Co.:
Agents, B, 8/4, p.189; 9/8, p.182; 12/29, p.129
Detroit warehouse, B, 11/10, p.212

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Reeves Pulley Co.:
Drive control cylinder, IE, 11/10, p.178

Reflectal Corp.:
Sold, B, 7/21, p.178

Reflin Co.:
Fiberglass girds plastic pipe, 11/10, p.150

Reintjes Co., Geo. P.:
Agent named, B, 9/8, p.179

Reliance Electric & Engineering Co.:
Agent, B, 11/10, p.207
Moves, N. J., B, 11/24, p.176

Rem-Cru Titanium Inc.:
Booklet, Titanium Review, 9/8, p.119
Clark reports on titanium growth, 7/7, p.89
Coiled titanium, Metal Show exhibit, pic, 10/27, p.44

Repro Templets Inc.:
Plant layout pictures, 8/18, p.122

Republic Aviation Corp.:
Aircraft casting paper, 11/17, p.120
Tools for wing panel output, B, 9/29, p.164

Republic Flow Meters Co.:
Calibrator, IE, 8/4, p.158

Republic Steel Corp.:
Continuous casting progress, 12/22, p.79
Open hearths ready, 11/3, p.65
Profits down, 8/18, p.56
Safety award, B, 12/22, p.127
Seamless mill, Chicago, pic, 10/13, p.120
Seamless mill, Chicago, 12/22, p.27
Steel & Tubes anniversary, B, 9/1, p.153
Titanium production, 8/25, p.100
Truscon a day, B, 11/3, p.194

Republic Supply Co.:
Pipe bolt threading machine, IE, 10/6, p.124

Resources for the Future Inc.:
Paley Comm. proposals conference scheduled, 11/24, p.62

Revere Copper & Brass Inc.:
Induction furnace oscillating conveyor, 7/7, p.100

Revolvator Co.:
Power drive wheel articulation, IE, 7/14, p.135

Reynolds Jamaica Mines Ltd.:
Bauxite mine opening, B, 12/22, p.126

Reynolds Metals Co.:
Air Force extrusion, B, 12/15, p.204
Aluminum bus bars, ENG, 9/22, p.108 and pic, 9/22, p.184
Aluminum forming booklet, 9/15, p.117
Aluminum plant stretches, 12/29, p.80
Ark. contract, B, 11/10, p.207
European competition, 11/10, p.81
Pipe porcelain enamel coating, 7/7, p.98
Trailer displays aluminum foil for packaging, 11/3, p.102

Rheem Mfg. Co.:
Research lab, B, 10/27, p.145

Ric-Wil Plastic Coating & Mfg. Corp.:
Phenolic resin coatings, IE, 8/18, p.148

Rice Barton Corp.:
Adds buildings, B, 10/6, p.163

Rice Pump & Machinery Co.:
Die filer improved, IE, 7/14, p.135

Rinshed Mason Co.:
Buys Canadian firm, B, 9/8, p.181

Ritmar Co.:
Extension chuck, IE, 8/11, p.130

Rivett Lathe & Grinder Inc.:
Pilot air valves, IE, 12/22, p.97

Robertshaw-Fulton Controls Co.:
Strike, 7/7, p.62, ends, 8/11, p.48

Robins & Co. Inc., A. K.:
Rebuilds plant, B, 12/15, p.199

Robinson Co.:
Shell molding machine, 12/22, p.77

Roche Co., Paul C.:
Solder tip heats in 6 sec., 11/10, p.126

Rochester Mfg. Co.:
Pressure switch for air in tank, 12/8, p.116

Rockwell Mfg. Co.:
Carbide tipped circular saw, IE, 7/21, p.151
Drill, hydraulic, IE, 12/15, p.157

Rodgers Hydraulic Inc.:
Platen press, IE, 8/18, p.140

Roebling's Sons Co., John A.:
Moves at Cleveland, B, 10/27, p.143
Sold, 12/15, p.80

Rogers & Co., Samuel C.:
Combination grinder, IE, 12/1, p.138
Knife grinder, IE, 8/25, p.125
Knife grinder, IE, 10/6, p.124

Rohr Aircraft Co.:
Photography aids spot welders, ENG, 10/20, p.89

Rolled Products Co.:
To build, B, 9/8, p.179

Rome Cable Corp.:
European competition reported, 11/10, p.81

Ronson Art Metal Works Inc.:
Enters aircraft parts field, B, 9/29, p.166

Rose Co.:
New name, B, 9/1, p.153

Rosenberg Bros. & Co.:
Moves plant, B, 8/4, p.190

Ross Heater Div.:
See Kewanee-Ross Corp.

Rotex Punch Co.:
Bench mill, IE, 12/1, p.148

Roth Steel Products Co.:
Fire alarm, 10/20, p.72

Roto-Finish Co.:
Mechanical - magnetic separator, IE, 8/25, p.132

Rotor Tool Co.:
Moves, B, 7/14, p.175
Vertical grinders, IE, 7/21, p.148

Roura Iron Works Inc.:
Drop-bottom containers, IE, 7/14, p.136

Royal Metal Mfg. Co.:
Agent named, B, 9/8, p.181
Buys plating firm, B, 12/15, p.204
Storage shelving, IE, 9/15, p.166

Royal Netherlands Steelworks:
Luminous flame experiments, 9/1, p.94

Royston Laboratories Inc.:
Agent, B, 12/1, p.178

Rudge & Neblett Inc.:
Clerical cost control, 9/15, p.131

Russell Mfg. Co.:
Brake lining process, 7/7, p.135

Rust Furnace Co.:
Soaking pits to Algoma, B, 7/14, p.175

Ruttey Industries Inc.:
Organized, B, 10/27, p.144

Ryan Aeronautical Co.:
Aluminum fuel tanks all-welded, 7/28, p.81
Ceramic coatings, 11/3, p.99
Fuel tank coating, 9/1, p.87
Lathe machines both jet cone ends in one setup, 10/20, p.100
Pickling containers made from scrap at punch presses, ENG, 9/8, p.85
Titanium research contracts, 10/20, p.63, 12/8, p.136

S

St. Lawrence Fluorspar Inc.:
Expansion, DMPA loan, B, 8/4, p.187

SKF Industries Inc.:
Tools up at Altoona, B, 9/1, p.151

Sage Equipment Co.:
Dumbwaiter, IE, 9/22, p.200
Power driven conveyor, IE, 12/1, p.131

Salem-Brosius Inc.:
Moves, B, 9/29, p.164

Sales Service Machine Tool Co.:
Power hack saw, IE, 12/22, p.89

San-Equip Inc.:
Adds plant, B, 7/21, p.180

Sandvik Steel Inc.:
Starter spring, ENG, 7/21, p.87

Sarkes Tarzian Inc.:
Licensed by I.T.&T., B, 12/22, p.124

Scaife Co.:
Anniversary, opens bldg., B, 11/24, p.174

Scherr Co. Inc., George:
Chrome finishes micrometer, IE, 12/8, p.157

Schinker Mfg. Co., Michael A.:
Heat cutter, IE, 9/8, p.150

Schneible Co., Claude B.:
Moves offices, B, 10/13, p.372

Scientific Cast Products Corp.:
Far-infrared electric heat dries plaster molds, 8/11, p.112

Scientific Electric:
Spray gun, IE, 12/1, p.136

Scovill Mfg. Co.:
Bars to flats in seven passes, ENG, 8/4, p.89
Metal Show exhibit, 10/13, p.304

Scully-Jones & Co.:
Stub taper turret tool holder, IE, 9/29, p.134

Seaboard Coil Spring Corp.:
Div. of Associated Spring, B, 10/27, p.143

Seaporcel Metals Inc.:
Porcelain coating, acid resistant, 11/17, p.112
Steel out of oven (pic) for submarine, 12/8, p.187

Searjeant Metal Products Inc.:
Power press guard, IE, 10/13, p.339

Sears, Roebuck Co.:
All-State sales slow, 9/15, p.56

Segal Lock & Hardware Co. Inc.:
Buys Arrow Lock, B, 10/27, p.148

Seidelhuber Steel Rolling Mill Corp.:
Pacific Northwest plant, 12/29, p.88
RFC loan, B, 8/18, p.175
Seattle mill, B, 12/8, p.185

Seneca Falls Machine Co.:
Automatic handling machine, 9/15, p.120

Servel Inc.:
Tooling job for airframes, 10/6, p.80

Service Caster & Truck Corp.:
Four post lifters, IE, 7/21, p.136
Leveling device, IE, 8/18, p.135
Lift handles double pallets, IE, 8/11, p.121
Lift handles heavy rolls, IE, 8/4, p.150

Shakeproof Inc.:
Stamping plant, B, 9/1, p.151

Shapiro & Co. Inc., B.:
Adds plant, B, 7/14, p.177

Shamban & Co.:
Doubles plant capacity, B, 8/25, p.164

Sharon Tube Co.:
"Watch charm" mill, 12/1, p.96

Shawinigan Chemicals Ltd.:
Expanding, B, 9/8, p.182

Sheaffer Pen Co., W. A.:
Air conditioning, 9/8, p.59

Sheffield Corp.:
Gaging head, IE, 9/15, p.167
Gear grinder, IE, 9/1, p.111
Precision thread grinder, IE, 12/8, p.157
Unit gages sells cheaper, 11/10, p.74

Sheffield Bronze Paint Corp.:
Aluminum paint, ready-mixed, IE, 8/4, p.160

Shellmold & Machine Co.:
Shell molding machine, 12/22, p.74
Spo Mfg. agreement, 12/15, p.126

Shell-O-Matic Corp.:
Shell molding machine, 12/22, p.77

Shenango Agaloy Tube Co.:
Buys Koldweld, B, 11/10, p.207
Tube mill construction, 7/14, p.65

Shenango-Penn Mold Co.:
Pattern shop, 7/28, p.144

Sheridan Products:
Bonding agent, IE, 11/17, p.162

Shick Inc.:
Ultrasonic cleaner, 11/3, p.92

Sightmaster Corp.:
Forms subsidiary, B, 12/15, p.199

Shure Mfg. Corp.:
Portable handling cart, IE, 9/22, p.206

Shure Bros.:
Rubber punch cuts scrap, 8/25, p.112

Shepard Elevator Co.:
Phase sequence relay, IE, 7/21, p.144

Sier-Bath Gear & Pump Co. Inc.:
Screw pump, IE, 9/8, p.152

Sierra Drawn Steel Corp.:
Adds drawbench, B, 11/3, p.191
Builds, B, 10/20, p.169
Drawbench handles carbon, alloy steel, 10/6, p.91
Mill—Seattle, B, 12/1, p.177

Sightmaster Corp.:
Welding rod, ENG, 10/6, p.75

Silent Hoist & Crane Co.:
Mobile crane-trailer hookup, IE, 9/11, p.114

Silver Miller Mines Ltd.:
Cobalt agreement, 8/18, p.70

Silverstein & Pinsof Inc.:
Changes name, B, 9/8, p.179

Simmons Machine Tool Corp.:
Engine lathe, IE, 12/1, p.146

Simonds Abrasive Co.:
Tabletting machine, pic., 8/4, p.190

Simplex Wire & Cable Co.:
Adds to plant, B, 7/28, p.139

Singleton Co.:
Salt spray testing cabinet, IE, 10/27, p.112

Sipi Metals Corp.:
New name, B, 9/8, p.179

Skilsaw Inc.:
Adds service branch, B, 8/11, p.162
Name changed, B, 10/13, p.367

Sloss-Sheffield Steel & Iron:
Agent named, B, 12/22, p.123
Division of U. S. Pipe, B, 11/24, p.171

Smart-Turner Machine Co. Ltd.:
To build, B, 9/8, p.179

Smith & Mills Co.:
Shaper data, 12/8, p.132

Smith & Sons Inc., G. W.:
Lubricant for die casting, IE, 10/6, p.134

Smith & Wesson:
Guns, process of revolver making, pic., 11/10, p.73

Smith Corp., A. O.:
Appoints agent, B, 9/1, p.151
Closes Toledo plant, B, 7/21, p.177
Grating distributors, B, 9/22, p.239
Press bends steel sheets, pic., 10/20, p.75

Smith Power Transmission Co.:
Horn press, IE, 12/15, p.157

Snell Inc., Foster D.:
Adds to lab, B, 7/14, p.180

Snyder Tool & Engineering Co.:
Tool completes 37 operations on cast iron clutch housings, 9/22, p.186
Transfer machine finishes bearing caps, 11/17, p.135

Solar Aircraft Co.:
Belt sander, pic., 8/25, p.115
Buttwelding machines, IE, 10/20, p.142
Expansion joints built, 11/3, p.146
Jet part—nickel savings, ENG, 9/15, p.91
Manufacturing shift slashes production time, 11/22, p.64
Tool techniques for jets, pic., 11/24, p.74
Shell molding stainless, pic., 12/1, p.122
Small turbines-big backlog, 12/29, p.45
Welders tour plant, 9/15, p.132

Sonneborn Sons Inc., L.:
Paint primes, seals, finishes, IE, 7/7, p.153

South Bend Lathe Works:
Mortising attachment, IE, 8/18, p.136
Precision rotary table, IE, 12/1, p.144

Southern States Iron Roofing Co.:
Miami, Fla., branch, B, 11/17, p.195
Moves plant, B, 11/24, p.176

Southwest Products Co.:
Moves, B, 11/24, p.173

Special Screw Products Co.:
Machining forged tees and ells, 10/6, p.86

Speco Inc.:
Heat resistant paint, IE, 8/18, p.151

Speedways Conveyors Inc.:
Belt conveyor stacker, IE, 9/15, p.156

Spekaluminite Co.:
Welding agent, no porosity, IE, 9/8, p.155

Sperry Products Inc.:
Nondestructive testing, pic., 10/13, p.163

Spike Mfg. Co.:
Multiple head surface grinder, IE, 10/13, p.333

Split Ballbearing Corp.:
Ball bearing bushing, IE, 10/27, p.104

SPO Inc.:
Automatic molder, IE, 8/18, p.135
To make shellmold units, 12/15, p.126

Springfield Machine Tool Co.:
Contouring attachment, IE, 10/27, p.103
Dual-spindle vertical grinder, IE, 10/20, p.134

Sta-Fast Inc.:
Licenses Deiron Co., B, 7/25, p.165

Standard Electric Mfg. Co. Inc.:
Blower removes air, IE, 12/1, p.134

Standard Paint & Varnish Co. Ltd.:
Sold, B, 9/8, p.181

Standard Pipe Supply Co.:
Houston plant, B, 7/7, p.177

Standard Pressed Steel Co.:
Workbenches tailored, 7/28, p.90
Workbenches for Air Force, 10/20, p.121

Standard Railway Equipment Co.:
Moves to Indiana, press dismantled at New Kensington, pic., 10/13, p.131

Standard-Vacuum Oil Co.:
Generator test, pic., 12/15, p.80

Stanley Works:
Buys Vern Mfg., B, 11/24, p.173

Stanwood Oil Corp.:
Thermo-chemical corrosion treatment for mild steels, 7/28, p.99

Starrett Co., L. S.:
Die stock hardens in air, 9/29, p.97

Steel City Mfg. Co.:
Buys Charter Metals, B, 12/1, p.177

Steel Improvement & Forge Co.:
Hammer tests, ENG, 9/1, p.81

Steeley Co. Ltd.:
To build, Ont., B, 11/17, p.198

Steiner-Ives Co.:
Builds plant, B, 8/4, p.189

Stephens-Adamson Mfg. Co.:
Personnel conveyor belt, 12/1, p.58

Sterling Electric Motors Inc.:
Double reduction geared motors, IE, 9/22, p.197

Sterling Metal Sales Co. Inc.:
Moves office, B, 9/29, p.166

Stevens Inc., Frederic B.:
Low pH nickel strike for plating, ENG, 7/21, p.87
Plating savings, drag-out stations, ENG, 10/13, p.147
Shells coated automatically, Metal Show exhibit, 10/13, p.261

Stevens Arms Co.:
Porter-Cable belt grinder, 8/25, p.97

Stewart-Warner Corp.:
Invests abroad, B, 9/8, p.184
Merger, B, 12/1, p.175
Oil-mist, IE, 10/13, p.328

Stockham Valves & Fittings Co.:
Expands, B, 8/4, p.190

Stokes Machine Co., F. J.:
Cincinnati branch, B, 9/22, p.239
Metal Show setup, 9/8, p.130

Stone Machinery Co.:
Cutoff machine, IE, 8/18, p.144

Streeter-Amet Co.:
Strain gage on scale job, 11/17, p.147

Studebaker Corp.:
Canadian site, B, 12/8, p.188
Engineers promoted, 9/1, p.68
Expands plant, B, 12/1, p.175

Studebaker Machine Co.:
Press with tester, 9/15, p.155

Sturdi-Bilt Steel Products Co.:
Work benches, IE, 11/17, p.159

Subway Grating Co.:
Turntable, 9/22, p.83

Sub-Zero Products Co.:
Agents, B, 11/17, p.198
Chilling machine tests parts at 80°F, 9/8, p.142
Reorganized, B, 11/10, p.207

Sundberg-Ferrar:
Design dept., B, 9/8, p.181
Headquarters opened, B, 12/22, p.123

Sundstrand Machine Tool Co.:
Larger stack valve design, 8/11, p.92

Super Tool Co.:
Face milling cutter, IE, 12/22, p.90
Reamer grind, IE, 11/17, p.164

Superdraulic Corp.:
Power units, IE, 8/25, p.132

Super-Grip Anchor Bolt Co. Inc.:
Anchor bolt assemblies, IE, 8/18, p.146

Superior Hone Corp.:
Bench model honing machine, IE, 8/11, p.121

Superior Industries Inc.:
Expands, B, 12/1, p.180

Superior Marking Equipment Co.:
Steel marking machine, 10/20, p.68

Superior Tube Co.:
Titanium data, 9/15, p.141
Tube stored systematically, 8/18, p.111
Tubing solves problem, dental instrument makers, 10/20, p.115

Surface Combustion Corp.:
Batch-type furnace, pic., 10/20, p.113
Moves at Detroit, B, 10/20, p.174
Stainless descaling bath, pic., 7/14, p.130

Sutter Products Co.:
Shell molding machine, 12/22, p.74

Sutton Engineering Co.:
Stretcher improves stainless, 7/28, p.79

Swartwout Co.:
Branch office, Mass., B, 11/10, p.209
Transmitter, IE, 11/24, p.141
West Coast office, B, 7/21, p.178

Swiss Laboratory:
Aluminum as filling solder, 7/14, p.125

Sylvania Electric Ltd.:
Electronics plant, B, 12/1, p.180

Sylvania Electric Products Inc.:
Expands at Buffalo, B, 7/14, p.180

Syntron Co.:
Birmingham office, B, 10/27, p.145
Chicago office, B, 8/4, p.189
Cleveland office, B, 12/1, p.180
Canadian subsidiary, B, 8/11, p.160
Electric hammer drill, IE, 12/15, p.168
Newark agent, B, 9/29, p.163
St. Louis store, B, 12/15, p.199
Vibratory parts feeder, 11/10, p.126

Syracuse Smelting Works:
Smelting plant, Italy, 8/11, p.65

T

Talon Inc.:
Zipper plant, Ga., B, 9/8, p.184

Taylor Instrument Cos.:
To build, Canada, B, 9/8, p.184
Fever thermometer, 7/7, p.104

Tebben & Co., John D.:
Survey plating markets, B, 12/29, p.129

Technical Equipment Sales Co.:
Organized, B, 9/29, p.163

Techno Co.:
Valve checks gas, air, IE, 9/29, p.131

Teleflex Inc.:
Moves plant, B, 9/1, p.153

Temco Aircraft Corp.:
Conical stencil eases spraying, 12/29, p.85
Positioning by pushbutton, 7/7, p.126

Templeton, Kenly & Co.:
Consolidates N. Y. offices, B, 11/3, p.193
Ground broken for new plant, 10/20, p.107
Lightweight reel jack, IE, 7/14, p.146

Tenn-Tex Alloy & Chemical Corp.:
Houston plant, 9/29, p.161; opened, 12/8, p.67

Tenney Engineering Inc.:
To build, B, 11/10, p.210

Texas Co., The:
Dual purpose oil, IE, 9/8, p.150
Survey covers fat properties, 9/1, p.104

Texsteam Corp.:
Chemical injector pump, IE, 7/7, p.146

Thermacote Co.:
Tip-O-Lighter, IE, 8/11, p.129

Thomas Flexible Coupling Co.:
Line cataloged, 8/25, p.97

Thomas Tool & Die Co.:
Expands, B, 12/22, p.123

Thompson & Co.:
Metal primer, IE, 7/21, p.146

Thomson Industries Inc.:
Linear ball bearing, IE, 9/8, p.155

Thompson Products Inc.:
Direct resistance heating, 7/14, p.86
Engine parts plant, Ont., B, 12/22, p.126
Management-employee relations, Livingstone interview, 9/1, p.55

Thompson Wire Co.:
To build, B, 8/11, p.160

Thriftmaster Products Corp.:
Fixed center drillhead, IE, 11/17, p.153

Tigerman-Anderson Co.:
Tel-Alarm, IE, 9/1, p.124

Timken Roller Bearing Co.:
Arc furnace, 12/8, p.66
Bearing has tapered bore, 10/13, p.282
Converts melt shop to all-electric, 8/25, p.110
Graphitic steel product dev., 8/18, p.118
Ingot mold wash ends coating fumes, 12/8, p.106
Preshaped furnace roofs, pic., 7/14, p.104
Stock sizes announced, 8/25, p.118

Titeflex Inc.:
Metal hose care, 7/21, p.103

Tobin-Arp Mfg. Co.:
Moves, B, 12/15, p.204

Toledo Porcelain Enamel Products Co.:
Plant planned, B, 8/18, p.180
Siding of Vitri-Cor, 12/15, p.146

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Toledo Stamping & Mfg. Co.:
Conveyor belts, 8/11, p.87

Tomkins Johnson Co.:
Reamer's shank interchangeable, IE, 7/14, p.148

Tomlee Tool & Engineering Co.:
Metal cutting band saw, IE, 8/18, p.136

Tool Design & Eng. Co.:
To move, B, 8/11, p.162

Torcon Corp.:
Hydraulic torque converters, IE, 9/22, p.213

Torit Mfg. Co.:
Collector salvages diamond dust, IE, 10/6, p.130

Toro Mfg. Co.:
Blount lathe, 8/25, p.97

Tour & Co. Inc., Sam:
Acid test for rust, 9/8, p.122
Card recording system, 12/1, p.119
Casting porosity checked, 11/10, p.111
Filing cabinets, drawer mileage estimated, 10/13, p.288
Hot radiography cuts weld inspection time, 10/27, p.72
Molybdenum vapor plating coating, ENG, 12/29, p.73

Tourek Mfg. Co., J. J.:
Moves, B, 7/28, p.141

Towmotor Corp.:
Backrest extension, IE, 7/21, p.143
Crane arm truck attachment, IE, 7/14, p.138
Extension handles long loads, IE, 9/8, p.146
Fork truck diesel powered, 9/15, p.105
Lift longer reach with shorter legs, 9/22, p.179
Revolving carriage for load handling, IE, 9/1, p.122

Tracer Control Co.:
Production duplicating machine, IE, 8/18, p.139

Tracerlab Inc.:
Light source for researchers, ENG, 10/13, p.147

Tracto Lift Co.:
Adds models, IE, 10/27, p.111

Trailmobile Inc.:
Expands, B, 12/22, p.126

Training Within Industry Inc.:
Management consultants, 7/14, p.67

Trane Co.:
Air Reducer, IE, 7/14, p.146

Trans Gel Products Inc.:
Licenses Bettinger, B, 7/28, p.142

Trans Weigh Co.:
Conveyor belt weighing system, 12/8, p.112

Transducer Corp.:
Merges with A M & F, B, 9/8, p.179

Triangle Conduit & Cable Co. Inc.:
Builds mill, B, 11/3, p.191

Triangle Steel & Supply Co.:
Builds warehouse, B, 10/27, p.143

Tri Angle Tool & Machine Co.:
Opens office, B, 9/8, p.182

Triplex Screw Co. Inc.:
Sold, B, 11/17, p.195

Tri State Defense Industries Inc.:
Formed, B, 11/17, p.195

Truscon Steel Co.:
Republic division, B, 11/3, p.191

Tube Methods Inc.:
Controls ease precision tube problems, 8/18, p.95
High-speed straightening, 11/10, p.136

Tube Reducing Corp.:
Compression-formed tubes, 12/8, p.143
Rotor blades of Piasecki Hup helicopter, pic., 8/11, p.60
Spar tubes for rotor blades, 10/13, p.253

Tube Turns Inc.:
Anniversary, B, 7/28, p.144

Tumb-L-Matic Inc.:
Pocket Tumbler, IE, 9/29, p.124

Turchan Follower Machine Co.:
Lathe duplicator, IE, 11/24, p.141

Turco Products Inc.:
Organic finishing line, IE, 12/15, p.164
Steam cleaning compound, IE, 9/29, p.137

Turner Brass Works:
Tube finishing machine, 10/13, p.288

Turner Machinery Co.:
Multi-speed transmission, IE, 9/8, p.142

Tweco Products Co.:
Ground clamp, IE, 12/15, p.161

Twentieth Century Mfg. Co.:
Moves, B, 9/22, p.239

Twin Coach Co.:
Co-op program with Flexible, B, 9/15, p.195

Tyler Machine Co.:
Forms machine shop, B, 9/8, p.182

U

Umpqua Plywood Corp.:
Acquired by Pressed Steel, 10/13, p.131

Union Carbide & Carbon Corp.:
Chemical plant planned, 8/4, p.54
Clarifies position v diffusion plant, B, 9/15, p.195
Lab planned, B, 7/7, p.177
Locomotives get brushes, 11/10, p.152

Union Electric Co.:
Atomic power plant report, 7/7, p.63
Steel stack, pic., B, 10/13, p.369

Union Hardware Co.:
Buys Horton Bristol, B, 8/11, p.159

Union Metal Mfg. Co.:
Builds in Canada, B, 10/27, p.148
Buys site Canton, B, 9/1, p.153
Ont. plant, B, 12/8, p.190
Rotating storage unit, IE, 12/1, p.134

Union Spring & Mfg. Co.:
Buys American-Ft. Pitt, B, 8/25, p.165

Unit Crane & Shovel Corp.:
Fluid torque drive, 10/13, p.315

United Aircraft Corp.:
P&W cited by American Legion, 10/20, p.62
P&W opens plant, B, 11/17, p.195
Propeller blade coating for sea-going planes, ENG, 7/7, p.89
Storage grating, Sikorsky, 8/4, p.128

United Laboratories Inc.:
Latex-O-Crete flooring material, IE, 9/15, p.168

United Saran Corp. Ltd.:
Dow license, B, 12/1, p.175

United States Air Conditioning Corp.:
Agent named, B, 12/22, p.126, 12/29, p.133
Evaporative condenser, IE, 12/29, p.95

United States Chrome Corp.:
To build chrome plant, B, 9/22, p.239
Plastisols, new uses, 9/8, p.122

United States Drill Head Co.:
Expands, B, 9/1, p.156

U. S. Electrical Motors Inc.:
Low-speed right-angle worm gear motors, IE, 9/8, p.139
Motor uses 110 or 220 volts, IE, 8/4, p.143
Totally-enclosed motors, IE, 12/22, p.92
Variable speed motor, IE, 10/13, p.340
Vertical motor line, IE, 7/28, p.108

U. S. Electrical Tool Co.:
Sold, B, 11/10, p.212

U. S. Machine Corp.:
Merger, B, 12/1, p.175

U. S. Pipe & Foundry Co.:
Sloss-Sheffield a div., B, 11/24, p.171

U. S. Plywood Corp.:
Tekwood bonding paper, 11/24, p.106

United States Radiator Corp.:
Agent, B, 12/1, p.177

United States Rubber Co.:
Agent, B, 12/1, p.178
Cup grinding wheel, IE, 8/4, p.163
Cup grinding wheel, IE, 9/22, p.210
Naugatuck expands, B, at Tex., 8/11, p.159, at Conn., 9/8, p.184
Naugatuck supplier for plastics for autos, 10/6, p.61
Temperature tester, 7/14, p.125

United States Steel Co.:
American Steel & Wire:
  Blast furnace, 12/1, p.51
  Coke ovens rebuilt, pic., 11/24, p.174
  Gas washing, B, 10/6, p.163
  Gas washing, 10/13, p.304
  Hudson river pier rods for beams, 8/25, p.112
Appointments, 12/1, p.53
Army personnel carriers, pic., 9/29, p.52
Business records microfilmed, ENG, 7/28, p.75
Bain gets French metallurgical medal, B, 11/10, p.207
Columbia-Geneva operates foundry, B, 8/18, p.175
Expands container plant, B, 11/3, p.194
Fairless named for Fritz Medal, 8/11, p.110
Fairless Works: Special report, 9/22, p.121
Fairless behind schedule, 7/7, p.65
Fairless Wks. 72% finished, 11/3, p.55
Fairless dock unloaders, 11/17, p.129
Fairless stacks almost smokeless, ENG, 8/11, p.83
Generator plant, L. A., 10/13, p.310
High speed photography: Research tool, 7/7, p.90
Homestead workers want cash payment, 9/1, p.46
Irwin Wks.: Strip width held to close limits, 9/29, p.94
Molten iron shipped to Gary, 9/1, p.58
Financial report, 9/1, p.59
Open hearths, strike-damaged, 8/4, p.63
Personnel control program, 9/22, p.188
T. C. & I. expands zinc works, B, 11/3, p.193
Salaried workers' wages up-non-union members, 9/15, p.56
Warehouse, 15th, B, 12/15, p.204

U. S. Stoneware Co.:
Plastic tubing, IE, 9/8, p.150

United States Testing Co.:
Quartz angles x-ray test, 9/15, p.128

United States Time Corp.:
Jewels may be replaced by metals in watches, 8/4, p.114

U. S. Vanadium Co.:
Uranium ores treating plant, pic., 12/15, p.112

Universal Industrial Propeller Co.:
Buys fan div., B, 12/29, p.130

Universal Lubricating Systems Inc.:
Buttonhead grease fitting, IE, 8/11, p.129

Universal Sheet & Strip Steel Co.:
Moves, B, 9/29, p.161

Utica Drop Forge & Tool Corp.:
Welding applications on aluminum wire, 11/10, p.144
Wrench care book, 12/1, p.122

V

V & O Press Co.:
See Emhart Mfg. Co.

Vacu-Blast Co.:
Sand blaster refills easily, IE, 10/6, p.121

Vahl Engineering Co.:
Heating installation cost cut in half, 10/20, p.94

Valley Mfg. Co.:
See Hudson Motor Car

Valvair Corp.:
Solenoid pilot valve, IE, 11/24, p.138
Spring centered valve, IE, 8/4, p.158

Van Products Co.:
Bench vise, air-operated, IE, 8/11, p.130

Vanadium Corp. of America:
Alloy shipments color coded, 7/21, p.104
Ferrosilicon plant, B, 7/14, p.175
Ohio plant, B, 12/15, p.199

Vancouver Steel Ltd.:
To build electric furnace, 9/22, p.82, B, 9/22, p.239

Van Cleef Bros. Inc.:
Wire connectors, IE, 10/6, p.137

Van Noorden Co., E.:
Plexiglas skylight, 11/17, p.148

Vaughn Crane Co.:
Cranes with radio and TV, ENG, 7/28, p.75

Velan Engineering Co.:
Piston-operated steam trap, IE, 7/21, p.148

Velocity Power Tool Co.:
Acetylene-air gas torch, IE, 7/28, p.115

Vern Mfg. Co.:
Sold, 11/24, p.173

Vickers Inc.:
Expands, West Coast, B, 12/22, p.124

Victor Electric Products Inc.:
Sold, B, 8/18, p.178

Victor Equipment Co.:
Moves plant, B, 8/11, p.160

Victoreen Instrument Co.:
Buys Pioneer Electronics, B, 8/18, p.177

Vinco Corp.:
Indicator snap gage, IE, 8/25, p.139

Virco Mfg. Corp.:
Adds to plant, B, 12/29, p.132

Viscosity Oil Corp.:
Fingerprint compound, 10/27, p.50

Visi-Trol Corp.:
Moves plant, B, 10/13, p.367
Service new, B, 8/25, p.166

Visual Planning Equipment Co. Inc.:
Plant layout model patented, 9/29, p.97

Vlier Mfg. Co.:
Spring plungers, IE, 9/15, p.167

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*

Vocaline Co. of America:
Buys control of Bristol, B, 7/28, p.141

Vogel Tool & Die Corp.:
Pipe, tube notcher, IE, 11/10, p.175

Vulcan Steel Container Co.:
Builds in South, B, 9/8, p.179
Organized, B, 10/13, p.372

Vulcan Tool Co.:
Dust collector, IE, 7/14, p.141

W

Wagner Electric Corp.:
Expands transformer facilities, B, 10/13, p.372

Wales-Strippit Corp.:
Coil spring utilizes fluid compressibility, IE, 12/29, p.97
Combined table, tool rack, IE, 8/25, p.126
Drilling machine handles boring plus precision layout, IE, 9/22, p.200
Hole punch series, IE, 8/11, p.129
Steel contour shear, IE, 12/8, p.161

Walker Co. Inc., O. S.:
Lifting magnet, IE, 12/22, p.89

Wall Colmonoy Corp.:
Hard facing electrode, IE, 9/15, p.168

Wallace & Tiernan Ltd.:
Adds plant, B, 9/1, p.156

Walsh Press & Die Co.:
See American Gage & Machine Co.

Waltz Furnace Co.:
Car bottom furnace, IE, 11/10, p.169
Continuous annealing furnace, IE, 10/13, p.327
Pedal operated furnace door, IE, 7/21, p.135

Ward Leonard Electric Co.:
Ring type rheostats, IE, 11/3, p.154

Warner & Swasey Co.:
Lathe machines jet engine cones in one setup, 10/20, p.100
Testing reliability of control relays, report, ENG, 11/17, p.85

Warner Electric Brake & Clutch Co.:
Electronic brake control, 11/17, p.117
Licenses English firm, B, 9/8, p.182

Washington Porcelain Co.:
Die-pressed porcelains, 12/29, p.85

Waterman-Western Co.:
Organized, B, 10/20, p.172

Watson-Stillman Co.:
Acquired by Porter, B, 10/27, p.143

Wayne Home Equipment Co.:
Hand cleaners, 12/15, p.116

Webber Gage Co.:
Carbide gage block, IE, 9/15, p.168
Portable temperature device, 11/17, p.136

Weber Aircraft Corp.:
Ohio office, B, 12/8, p.190

Webster-Chicago Corp.:
Changes franchises, B, 11/17, p.196

Weirton Steel Co.:
Capehart hike refused, 7/14, p.56
Coke oven project, 11/24, p.72
Contract, harbor facilities, B, 8/25, p.164
Contract, Westinghouse, B, 11/17, p.195
Price hike $5.50-ton sought, 7/7, p.62

Wellman Co., S. K.:
Graphite coat cuts sinter loss on clutch plate compacts, 7/28, p.102

Weltronic Co.:
Control assembly, IE, 8/25, p.130
Surface electrical resistance measured, 9/15, p.159

Wendt-Sonis Co.:
Plant addition, pic., 11/24, p.128

Wesson Co.:
Tool bit holder, IE, 12/1, p.141

West Bend Aluminum Co.:
Expands, B, 8/18, p.180

West Bend Equipment Corp.:
Truck cushions loads, IE, 9/15, p.162

Westcott Chuck Co.:
Three-jaw universal chuck, IE, 9/22, p.208
Warehouses West, B, 9/8, p.179

Westeel Products Ltd.:
Adds plant, B, 8/25, p.164

Western Aluminum Corp.:
Expands facilities, B, 7/7, p.179

Western Canada Steel Co. Ltd.:
To build, B, 10/6, p.161

Western Electric Co. Inc.:
Reorganizes unit, B, 8/25, p.165
To build, N. C., B, 10/13, p.372

Western Mouldings & Stampings Inc.:
Merges, B, 11/24, p.174

Western Pacific Railroad Co.:
Rubber cushion underframe for boxcars, 10/13, p.258

Western Sky Industries:
Opens plant, B, 11/24, p.176

Western Spring Co.:
Expands, B, 9/15, p.195

Weston Electrical Instrument Corp.:
Contact-making instrument, IE, 9/1, p.122
Recording potentiometer, IE, 8/25, p.126

Westinghouse Electric Corp.:
Adds to Boston plant, B, 10/20, p.172
Adds to Fairmont plant, B, 9/8, p.179
Air-Arms equips defense plant, B, 8/11, p.154
Air-Arms moves dept., B, 10/27, p.144
Aircraft engine for Navy, ENG, 10/27, p.41
Ala. plant, B, 12/29, p.132
Booklet, side positioners, 11/24, p.122
Business report, 12/29, p.49
Centrifugal fan, IE, 7/7, p.148
Electric drive regulates tandem cold-reduction mill, 11/3, p.106
Film shows diesel repair, 8/18, p.104
Fluorescent mercury lamp equals 1000-watt, 7/21, p.121
Gearmotor, single-reduction, IE, 12/1, p.131
Generators for TVA underway, 9/29, p.102
Generator shipped in heavy car, 7/21, p.127
Generator shipped to Portland (GE), 9/8, p.132
Industrial fan, three-purpose, IE, 10/6, p.122
Instruments test sun's corona, Calif., 9/15, p.138
Jet engine announced, 9/8, p.62
Kuwait shipped power units, 8/25, p.116
Lab soundless chamber, ENG, 7/7, p.89
Lead-lag ballast, IE, 9/15, p.167
Luminaire, shallow surface, IE, 12/29, p.103
Mansfield production up, 9/29, p.51
Materials handling conference scheduled, 9/29, p.102
Materials handling conference, 11/3, p.55
Merchandising program, "add-a-part," 8/4, p.66
Meter plant, N. C., 12/8, p.125
Mill regulators, 11/17, p.137
Mobile power plant dev., B, 11/10, p.207
Navy plant occupied, 7/21, p.71
Protective relay, IE, 8/18, p.146
Punjab buys disconnect switches, pic., 8/11, p.65
Radio frequency voltmeter, IE, 8/11, p.130
Sales first half '52, 8/4, p.54
TV tube plant, B, 9/29, p.163; 12/15, p.143; 11/24, p.174
Telescopes tested with new instrument, ENG, 8/18, p.93
Transformer cores ribbed, 7/14, p.128
Water cooler, 9/8, p.111
Weirton contract, 11/17, p.195
Welder, engine-driven, IE, 8/4, p.143
X-ray unit, Sunnyvale plant, 9/15, p.136
Youngstown Sheet & Tube order, B, 9/15, p.195

Westwego Salvage Co.:
Crane in scrapyard, B, 10/20, p.171

Wheeler-Brady Inc.:
Materials handling survey, 11/10, p.139

Wheeling Steel Corp.:
Anniversary, La Belle Wks., B, 12/1, p.180
Booklet, tinplate output, 9/15, p.141

Wheland Co.:
Aluminum plant expansion, amortization sought, 10/27, p.35

Whirlpool Corp.:
Pic., F. S. Upton returns to job, 7/28, p.141

White Motor Co.:
Axle new for tractors, 10/13, p.290

Whitehall Precision Castings Co.:
Opens plant, B, 11/3, p.193

Whiting Corp.:
Ball bearing assembly for furnace tilting, 9/15, p.100

Whitman & Barnes:
Carbide line, 12/15, p.152

Wiedemann Machine Co.:
Agent named, B, 9/15, p.195

Wiegand Co., Edwin L.:
Electric unit heaters, IE, 12/1, p.141
Far-infrared drying units, 8/11, p.112
Infrared oven bakes paint on meter parts, 10/20, p.122

Wiegand Laundry Machinery Inc.:
New name, B, 8/11, p.159

Wilkinson Equipment & Supply Corp.:
Drum spray pump, IE, 10/6, p.137

Willamette Iron & Steel Co.:
Seam welded girders for bridge cranes at McNary dam, 9/29, p.86

Williams & Co., J. H.:
Box wrenches, IE, 9/22, p.213
Clutch head screwdrivers, IE, 9/15, p.171
Ratchet repair kits, IE, 8/4, p.163

Williamsport Wire Rope Co.:
Sale to Bethlehem: Ruling appealed, 10/20, p.54

Willys-Overland Motors Inc.:
Aero price cut, 12/15, p.89
Anniversary soon, business record, 12/8, p.80
Expands forge shop, B, 7/28, p.144
Forge hammers, pic., 7/21, p.64
Hammers (two) start operating, 7/21, p.106
Jeep railroad car, 10/6, p.61
Jeep underwater, pic., 11/10, p.83
Jeeps for military, 8/4, p.76
Military aircraft gears, 1st delivery, 7/7, p.76
To build Brazil, B, 9/8, p.182

Wilmar Steel Inc.:
Organized, B, 9/22, p.239

Wilson Associates, R. L.:
Manganese ore contract, B, 11/10, p.207

Wilson Transit Co.:
Buys J&L ore carriers, 12/1, p.40

Windalume Corp.:
Occupies new plant, B, 10/13, p.367

Winter Engineering Co.:
Shell molding machine, 12/22, p.77

Wiremold Co.:
Water-base lubricant, 11/24, p.112

Wisconsin Motor Corp.:
Expands, B, 12/15, p.204

Wood-Mor Products Co. Inc.:
Reactivates plant, B, 11/24, p.173

World Bestos:
Adhesive for shell molding, ENG, 9/1, p.81

Worthington Corp.:
Division new, B, 11/10, p.209
Foundry tries sand dryer, 11/3, p.102
Installs electric arc furnace, B, 11/3, p.191
Welding positioners exhibited, 9/15, p.128

Wyman-Gordon Co.:
Titanium forging, 12/15, p.104

Wysong & Miles Co.:
Power squaring shears, IE, 7/28, p.110

X, Y, Z

Yale & Towne Mfg. Co.:
Adds Lenoir plant, B, 12/22, p.123
Buys American Sintered, B, 7/7, p.180
Carton clamp, IE, 7/7, p.143
Electric truck clamp, IE, 11/3, p.167
High-lift pallet truck, IE, 10/13, p.343
Lift, gas or diesel, 9/15, p.147
Load carriers, IE, 8/25, p.130
Plant contract, B, 7/28, p.139
Separates sales units, B, 9/22, p.242

Yankee Engineering Specialty Co.:
Expands, B, 7/14, p.178

Yolo Steel & Metal Co.:
Certificate issued, 8/11, p.58
Certificate sought, 8/25, p.66

York Engineering & Construction Co.:
Post-defense listed, 11/24, p.61

York-Gillespie Mfg. Co.:
Post-defense listed, 11/24, p.61

Youngstown Airways Inc.:
Service plan, 11/24, p.74

Youngstown Alloy Casting Corp.:
Expands, B, 9/8, p.181

Youngstown Sheet & Tube Co.:
Coke battery for Campbell Wks., 11/3, p.56
Elec. equip. order, B, 9/15, p.195
Expansion costs, Indiana Harbor, 11/3, p.64
Mauthe warns on unsound earnings, Ohio Valley Credit Conference, 11/3, p.64
Retroactive pay, 9/15, p.56

Zagar Tool Inc.:
Broaching machine, IE, 8/25, p.132
Drilling machine, IE, 7/7, p.137

Zero Mfg. Co.:
Buys Zierold Mfg., B, 7/21, p.177

Zierold Mfg. Co.:
Sold, B, 7/21, p.177

Zonolite Co.:
Vermiculite insulation, pic., 12/8, p.116

Code: B *Briefs*, ENG *Engineering and Production News*, IE *Industrial Equipment*

AUTHOR INDEX

A

Aime, F. L., Anaconda Wire & Cable Co., Power system planning pays off in potential, 12/29, p.72

Alden, John W. and Joseph G. Mraver, Timken Roller Bearing Co., Aluminum good yardstick for steel grain size, 11/17, p.96

Anderson, E. H., Harold F. Howard Co., Manufacturing cost control, 10/27, p.53

Andrews, Don K., Norris Engineering Co., Big tooling job completed in record time, 10/6, p.80

B

Baker, S. W., associate editor, STEEL, Custom mill tackles production headaches, 12/8, p.94

Batcheller, H. G., Allegheny Ludlum Steel Corp., Renaissance in steelmaking methods, 10/27, p.94

Bergson, M. A., DoAll Co., Band saw walks through metal, 10/20, p.92

Berna, Tell, National Machine Tool Builders' Assn., Foreign machine tools . . . threat to security, 11/17, p.92

Buchanan, R. A., United States Steel Co., High speed photography: Steel research tool, 7/7, p.90

Bullock, R. J., Wyman-Gordon Co., Titanium forging experience mounts, 12/15, p.104

Butrick Jr., Frank M., consulting tool engineer, Automatic attachments: Drill makes chips fly, 12/1, p.80

C

Campbell, Walter J. and Irwin H. Such, STEEL editors, The Fairless Works, 9/22, p.121

Chase, Herbert, Fast shaft balancing: Truing almost on the nose, 9/29, p.100

Chase, Herbert, Mass production: But with an eye on versatility, 12/15, p.110

Clark, M. S., The Texas Co., Lubricants must survive rough treatment, 10/13, p.228

Cover, Martin L., Wet dust recovery, 8/11, p.98

D

Dickinson, Thomas A., Rolled T-sections cut aircraft part costs, 12/8, p.104

Dreher, G. M. and S. Vajda, Jones & Laughlin Steel Corp., Capturing dust in gases, 8/4, p.105

Dickinson, Thomas A., Vacuum impregnates metal castings, 7/14, p.88

F

Fanning, Frank H., Armco Steel Corp., Wide strip mill opens world of new ideas, 9/8, p.100

Flanders, Ernest V., Jones & Lamson Machine Co., Grinding shapes both sides of jet bucket "Christmas tree," 7/21, p.88

Fly, Paul V., Tube Methods Inc., Controls ease precision tube problems, 8/18, p.95

G

Girardi, D. J. and G. P. Michalos, Timken Roller Bearing Co., Ingot mold wash ends coating fumes, 12/8, p.106

Gobus, Alexander, Sam Tour & Co. Inc., Hot radiography cuts weld inspection time, 10/27, p.72

Gotberg, H. H., Colonial Broach Co., Crush grinding, 9/1, p.103

Gould, R. L., The Texas Co., Machinability theory pays off, 8/18, p.98

Gray, Dr. Allen G., technical editor, STEEL, Ion exchange—New hope for waste recovery, 10/20, p.96
Metals in the jetomic age, 10/13, p.148

H

Hall, Robert E., Pittsburgh editor, STEEL, Coated abrasives grind down costs, 8/25, p.92

Hanks, M. B., Gisholt Machine Co., Special machine improves stainless roll finish, 12/22, p.66

Harris, W. R., Westinghouse Electric Corp., Electric brains expand steel's muscle, 11/3, p.106; 11/10, p.112

Herington, C. E., Meehanite Metal Corp., High-duty irons reduce costs, 9/15, p.94

Higgins, Carter C., Worcester Pressed Steel Co., Titanium: It can be formed and drawn, 9/8, p.93

Hill, Robert C., Pacific Northwest steel plant in commercial operation, 12/29, p.88

Hughes, David P., Latrobe Steel Co., Bigger tool steel bars . . . the inside story, 11/3, p.96

J

Jameson, A. S., International Harvester Co., Carbon content determines boron steel behavior, 10/13, p.154

K

Karpick, Ed, associate editor, STEEL, Explosive pressing forms new material, 9/29, p.76

Kennedy, J. D., Carboloy Dept., General Electric Co., Chrome carbide provides high corrosion resistance, 8/4, p.92

Kovel, Ralph M., Case International Co., Foreign machine tools: Answer to a present need, 11/17, p.92

Knox, John D., steel plant editor, STEEL, "Watch charm" mill specializes on small diameter buttweld pipe, 12/1, p.90

Koopman, K. H., Linde Air Products Co., Welding meets jet-engine challenge, 12/29, p.76

L

Logan, J. A., Solar Aircraft Co., Manufacturing shift slashes production time, 12/22, p.64

M

Maloney, John, Federal Machine & Welder Co., Combined welding and forming lower appliance costs, 11/24, p.104

Melnitsky, Benjamin, Outside facilities extend scope of industry research, 8/4, p.96

Meninger, Frank, Stainless Engineering & Machine Works Div., Cooper Alloy Foundry Co., Centrifugally cast jet engine rings: How to rough machine them, 10/6, p.78

Michalos, G. P. and D. J. Girardi, Timken Roller Bearing Co., Ingot mold wash ends coating fumes, 12/8, p.106

Mraver, Joseph G. and John W. Alden, Timken Roller Bearing Co., Aluminum good yardstick for steel grain size, 11/17, p.96

O

Oehler, I. A., American Welding & Mfg. Co., Titanium alloys flash welded easily, 7/14, p.84

P

Petersen, Glenn R., General Electric Co., Strip width held to close limits, 9/29, p.94

Phillips, Arthur J., Eutectic Welding Alloys Corp., Welding doubles life of forging dies, 9/8, p.86

Phillips, Garnet P., International Harvester Co., Shell molding data grows, 12/22, p.68

Planner, Bernard P., James H. Knapp Co., High temperature metallurgy: Jetomic age demands it, 11/3, p.98

Porterfield, Paul, Method X Co., Spark machining: Meets superalloy challenge, 7/7, p.92

R

Reed, Lewis B., Industrial heating consultant, Los Angeles, Direct resistance heating, 7/14, p.86

Richards, Robert B., Kings County Lighting Co., Heating installation cost . . . cut in half, 10/20, p.94

Richards, Walter C., A. Leschen & Sons Rope Co., Wire rope life increased on hot metal cranes, 9/29, p.104

Rice, Owen R., Freyn Engineering Dept., Koppers Co. Inc., No drastic change seen in American blast furnace design, 10/20, p.101

Riley, F. E., Versatility in a jig, 12/29, p.74

Roddewig, Gil F., General Motors Corp., GMC Truck & Coach Div., Bench tests solve field problems, 11/24, p.102

Rozsa, J. T. and L. E. Zeeb, National Spectrographic Laboratories Inc., New spectrochemical excitation unit: A key to essential control in boron steels, 10/6, p.92

Russell, J. B., Kaiser Aluminum & Chemical Corp., Hot dip aluminizing affords protective surface, 7/14, p.100

S

Satkoff, Vincent, United States Steel Co., Scorecard insures spares control program, 7/28, p.88

Siehman, John J., Mercury Mfg. Co., Get the most out of the least plant handling space, 11/10, p.101

Smith, W. B., Laclede-Christy Co., Soaking pit covers poured with castable refractory, 7/21, p.100

Sommer, William J., Plainville Casting Co., Quality control: It's in the reach of small foundries, 11/17, p.86

Stissel, Carl F., Alexander & Alexander Inc., Coke plants explosion-proofed, 7/7, p.103

Strasser, Frederico, Springback—Problem in metal forming, 8/4, p.90

Such, Irwin H., and Walter J. Campbell, STEEL editors, The Fairless Works, 9/22, p.121

Sullivan, John L., Kennametal Inc., Precision gang tools speed roll grooving, 9/15, p.106

T

Terry, J. G., Armco Steel Corp., Strategic elements emphasis is on conservation, 9/1, p.82

Tuttle, H. C., Detroit editor, STEEL, Conveyor network moves press scrap, 12/8, p.100
Crankshaft output tripled, 9/29, p.78
Plastic dies draw truck panels, 9/15, p.92

V

Vajda, S. and G. M. Dreher, Jones & Laughlin Steel Corp., Capturing dust in gases, 8/4, p.105

W

Weisman, W. I., Ozark-Mahoning Co., Heating pickle liquor by submerged combustion, 12/15, p.114

Wenk, Samuel A., Battelle Memorial Institute, Nondestructive testing: Quality with fewer end-product failures, 10/13, p.159

Wilson, R. E., National Bureau of Standards, Temperature standardization: Big gain in research, 8/11, p.90

Z

Zeeb, L. E. and J. T. Rozsa, National Spectrographic Laboratories Inc., New spectrochemical excitation unit: A key to essential control in boron steels, 10/6, p.92

Zietlin, Alexander, Hydropress Inc. and Loewy Construction Co. Inc., Heavy presses challenge industry, 12/1, p.76

Zimmerman, Art, Assistant Editor, STEEL, Wrap up savings in scientific packaging, 10/6, p.57

Code: B—*Briefs*; ENG—*Engineering and Production News*; IE—*Industrial Equipment*